

Schriftübung

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Werkstoff

Gezeichnet

21.10.59

Geprüft

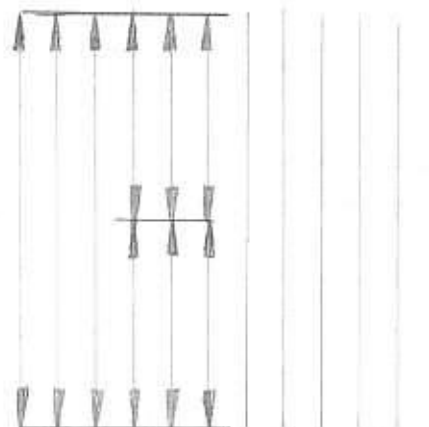
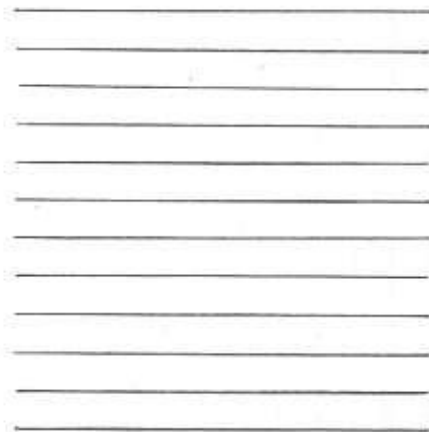
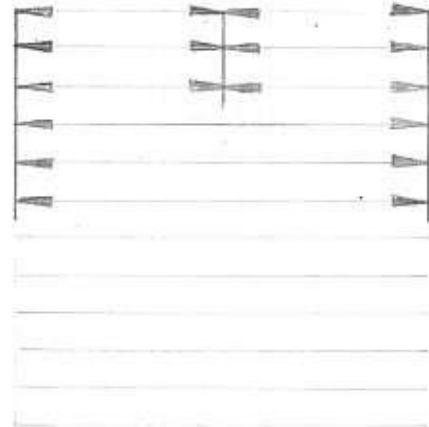
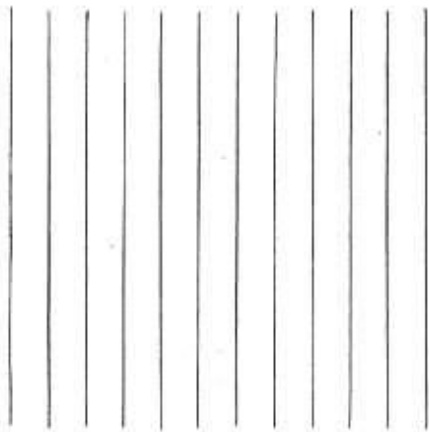
Berufsschule Nürnberg

Maßstab

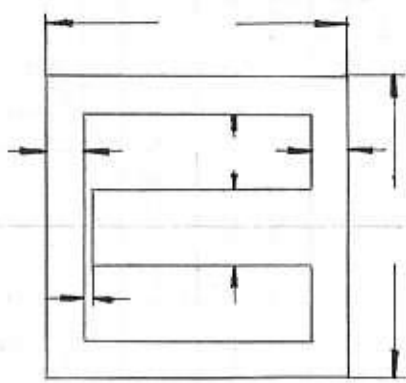
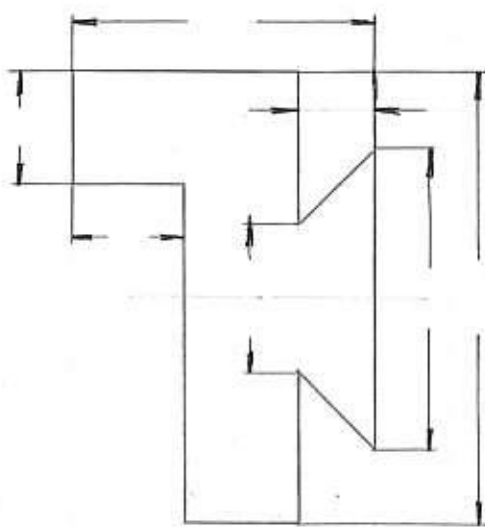
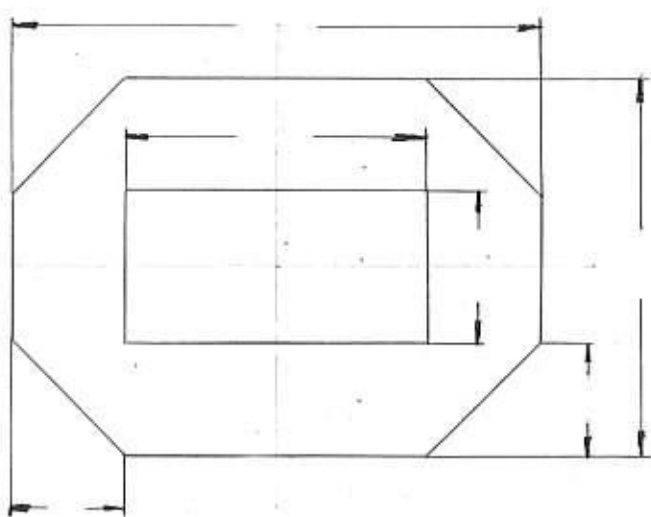
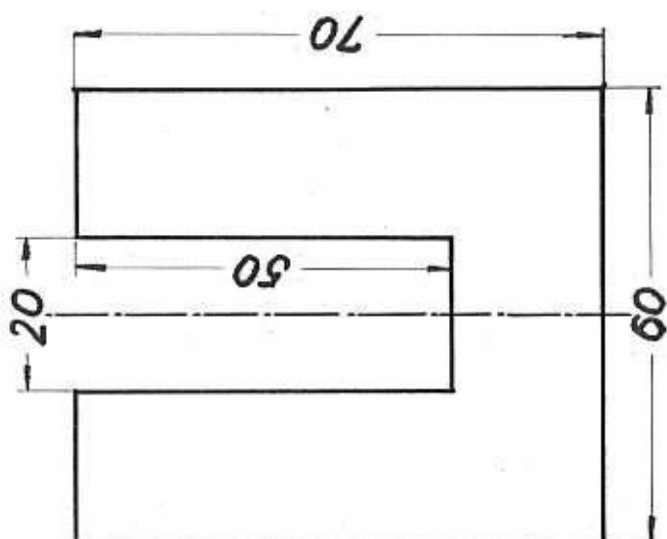
Schriftübung

Kurs PFmIC

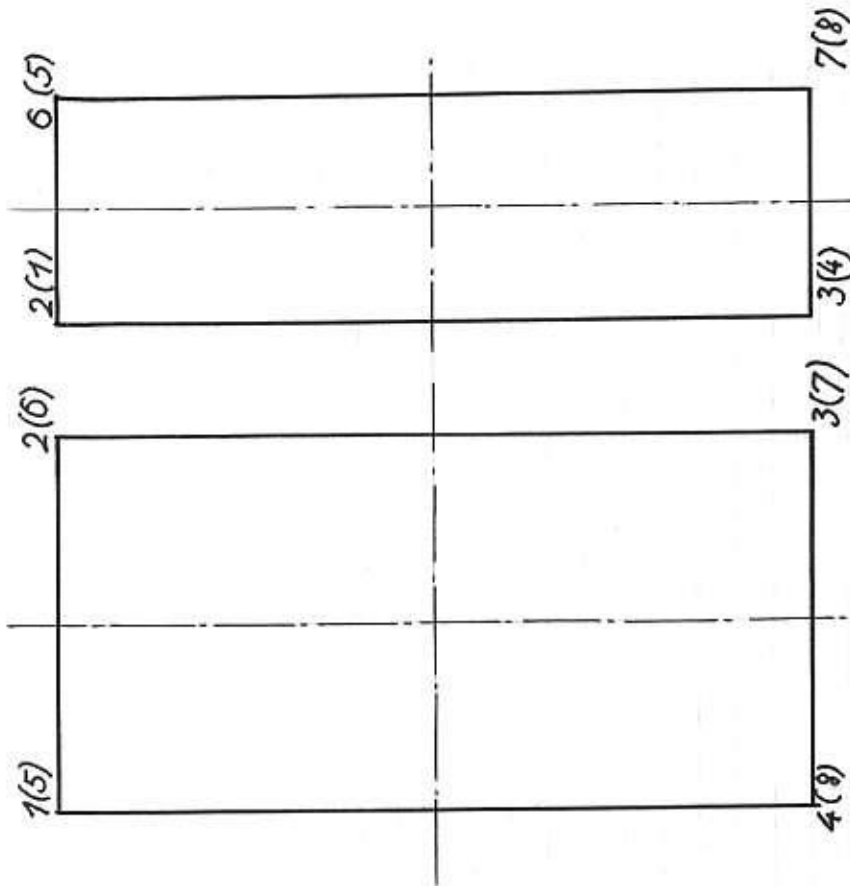
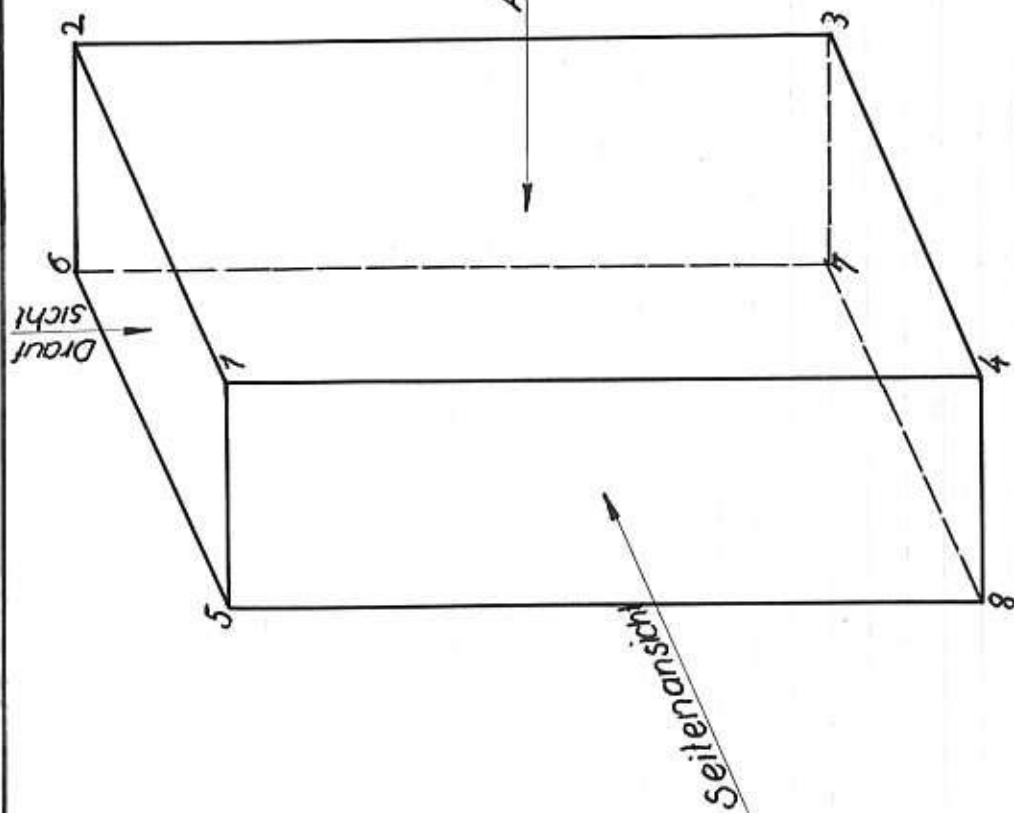
Zeichngs. Nr. 101



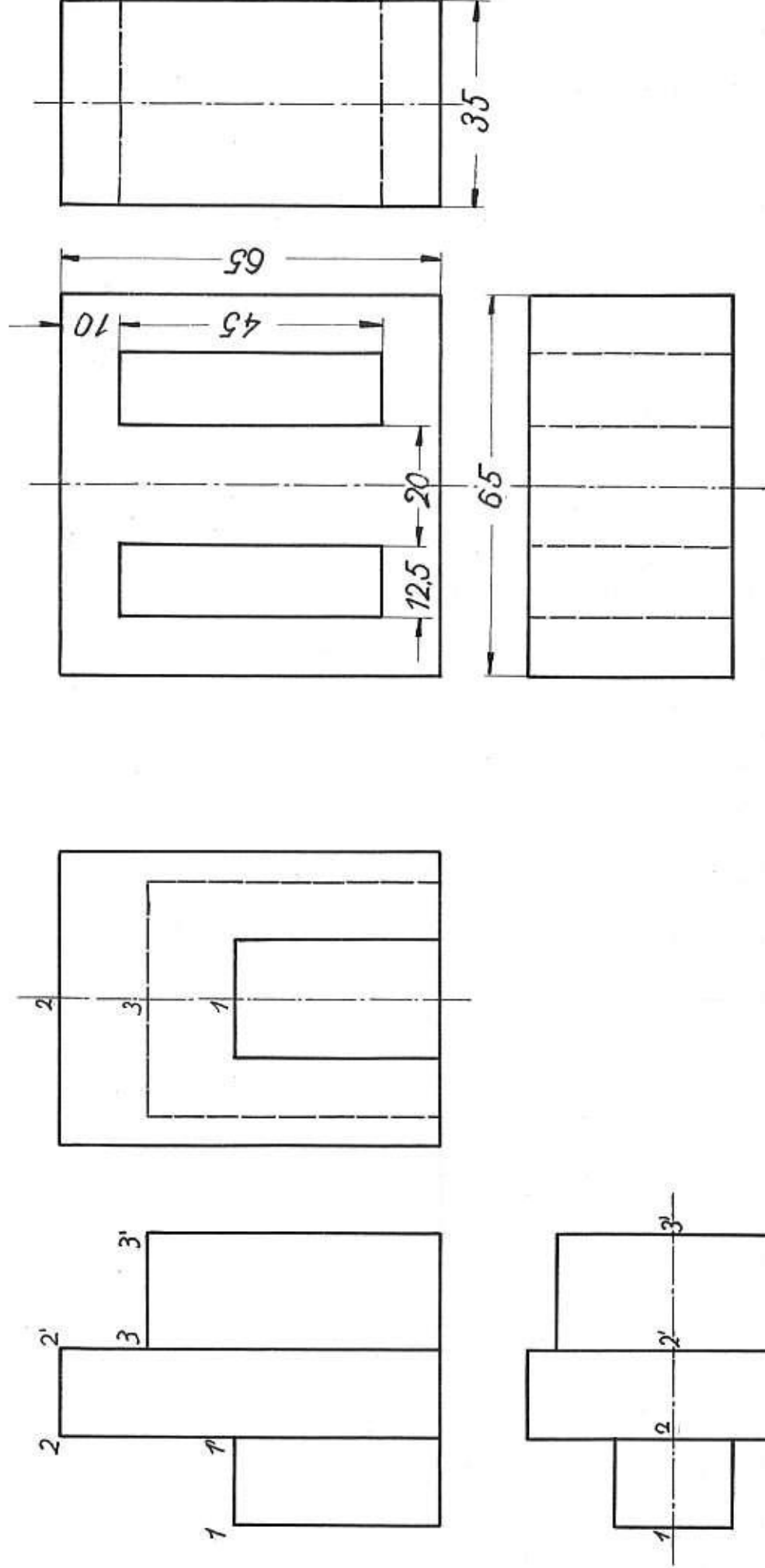
Werkstoff	Gezeichnet	7.10.59	Berufsschule I Nürnberg
	Geprüft	A.M. Ch.	
Maßstab	Strichübungen		Kurs PFmIC Zchg N° 102



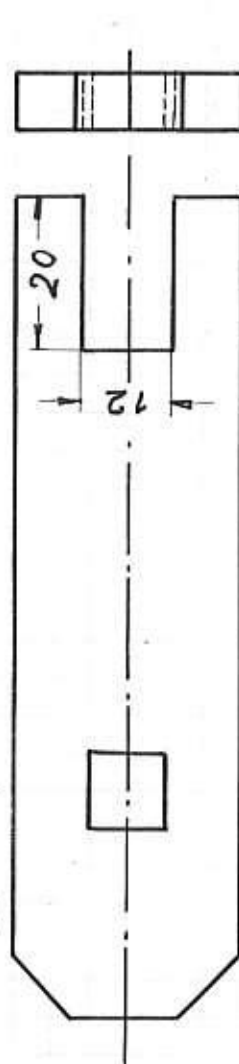
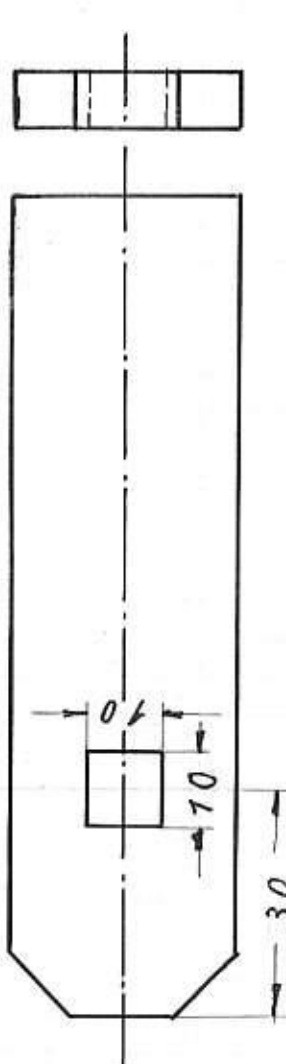
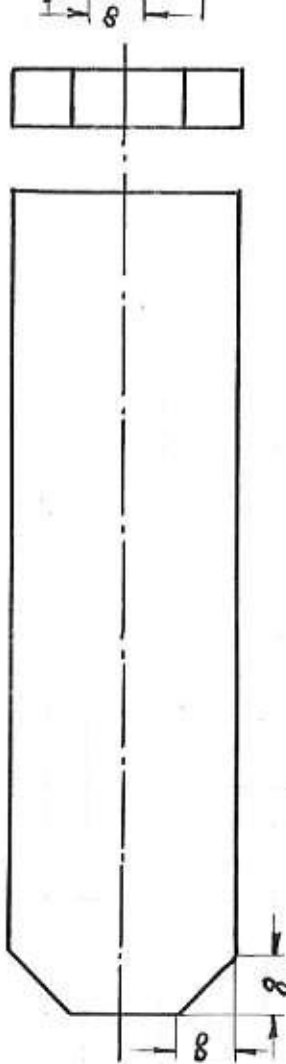
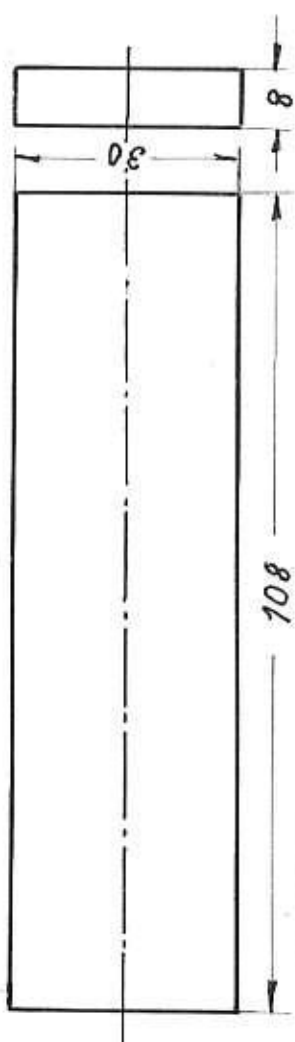
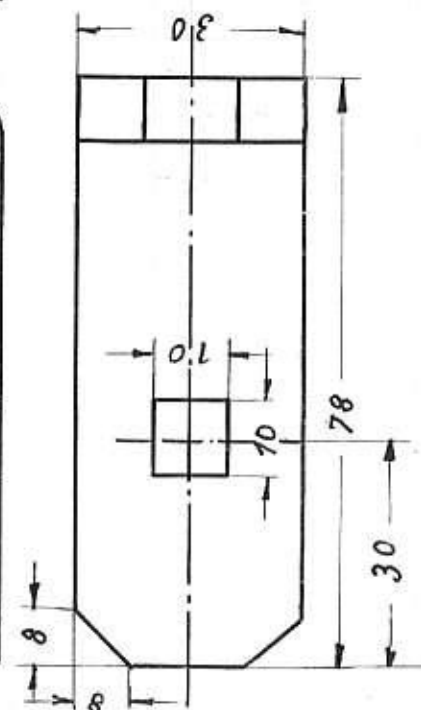
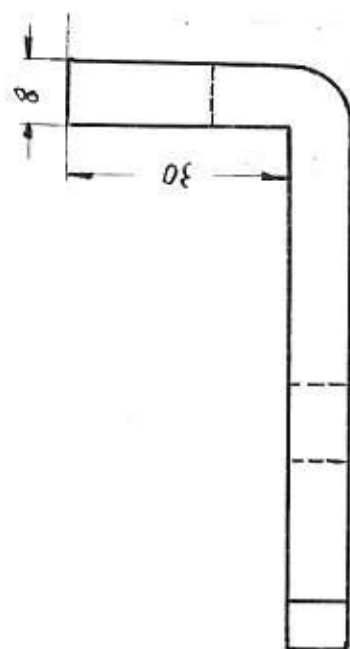
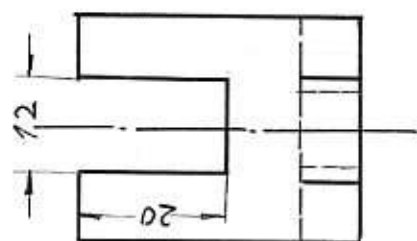
Werkstoff	Bezeichnet	21.10.59	Berufsschule Nürnberg
	Geprüft	4. H. Ja.	
Maßstab	Flachstücke		
			Kurs PFmIC
			Zeichnngs N° 103



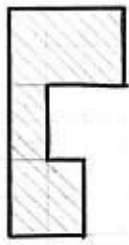
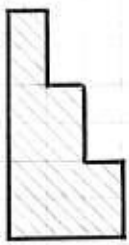
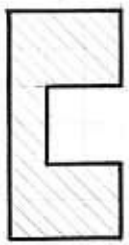
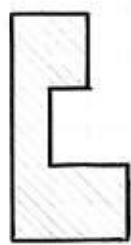
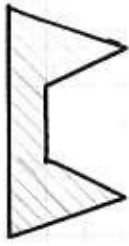
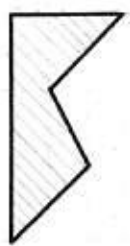
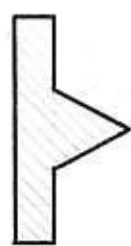
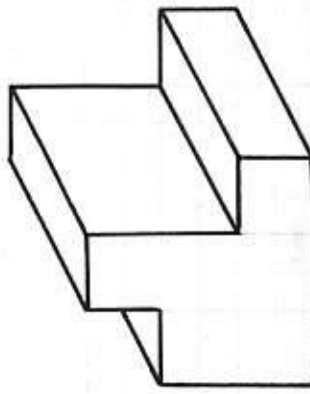
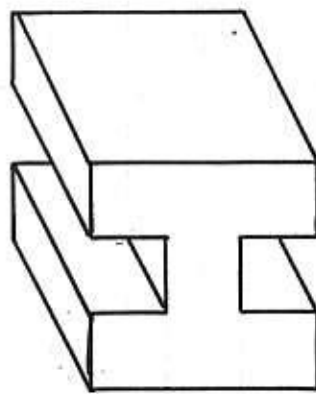
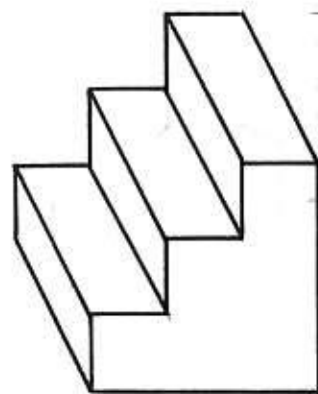
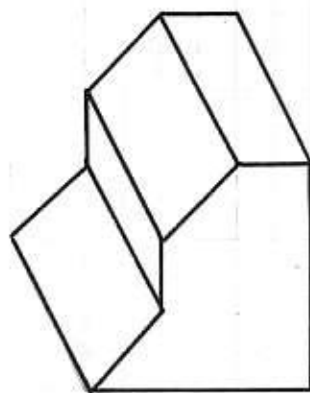
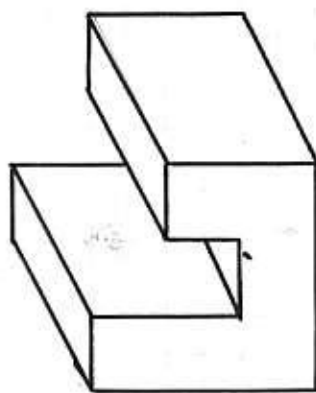
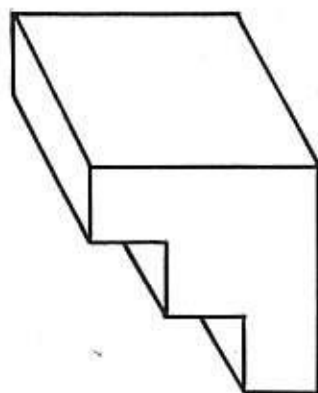
Werkstoff	Gezeichnet	21.10.89	Berufsschule Nürnberg	
	Geprüft	4.5.00	75°	
Maßstab	Rechteckiges Prisma			Kurs PFmI.C
				Zeichgs. N°104



Werkstoff	Gezeichnet	4.11.59	Berufsschule Nürnberg
Maßstab	Geprüft	4.5.60 Ch	Kurs PFMIC Zchg Nr 105
Trafo-Kern			



4.5.60	Berufsschule Nürnberg Kurs PFM I C Zeichn. Nr. 106
Winkel	



Gezeichnet 13.1.60

Geprüft

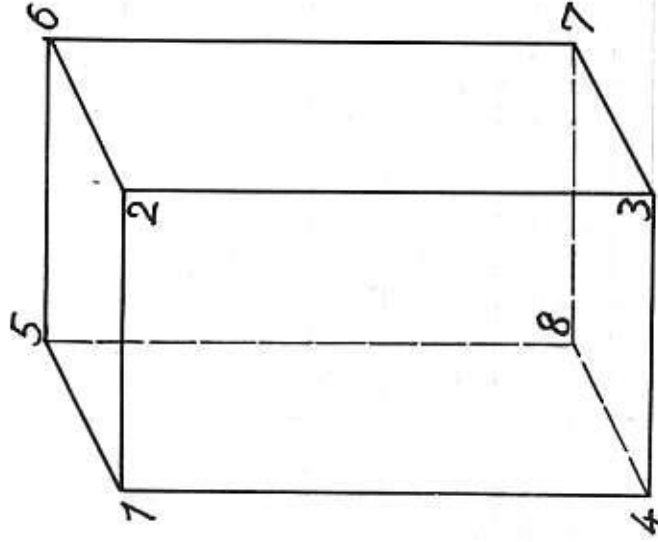
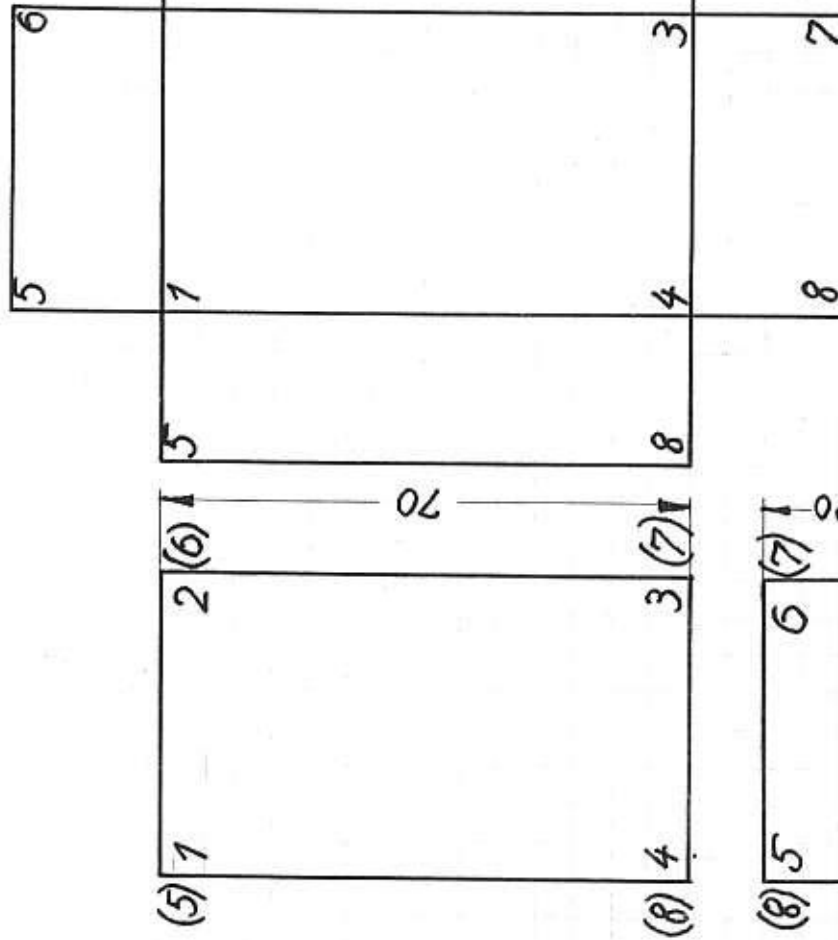
Werkstoff

Maßstab

Berufsschule Nürnberg

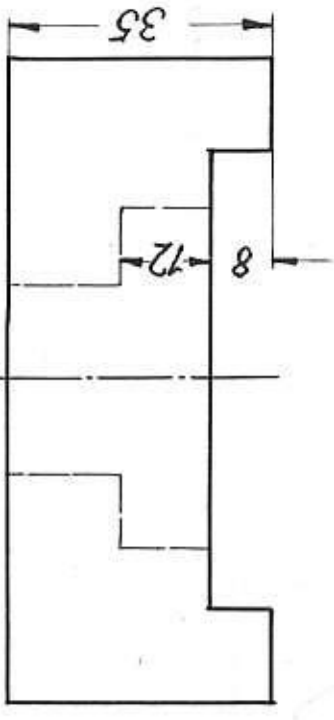
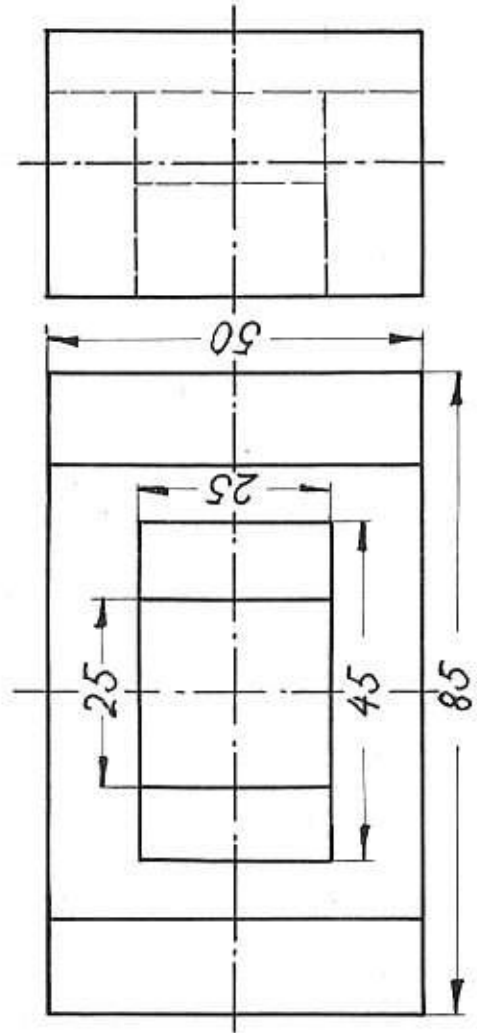
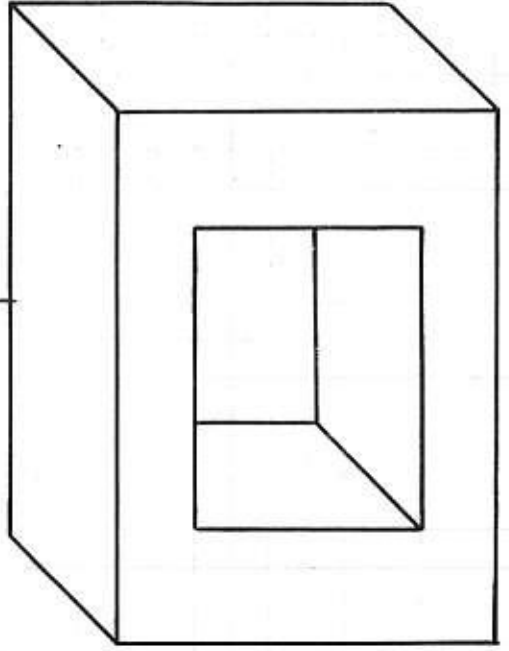
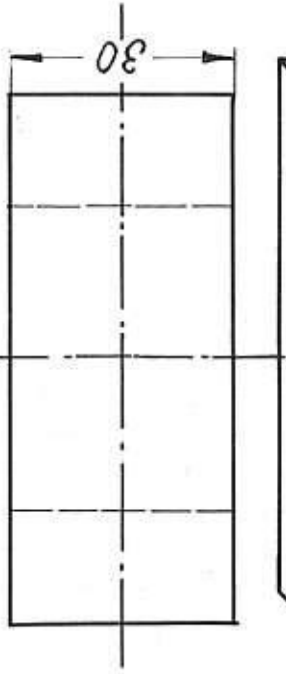
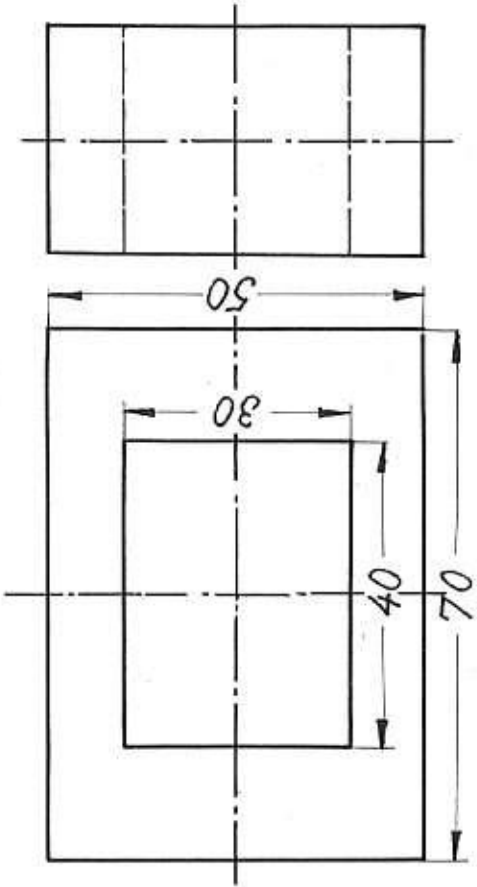
Kurs PFM I C

Zeichnungs. Nr. 107



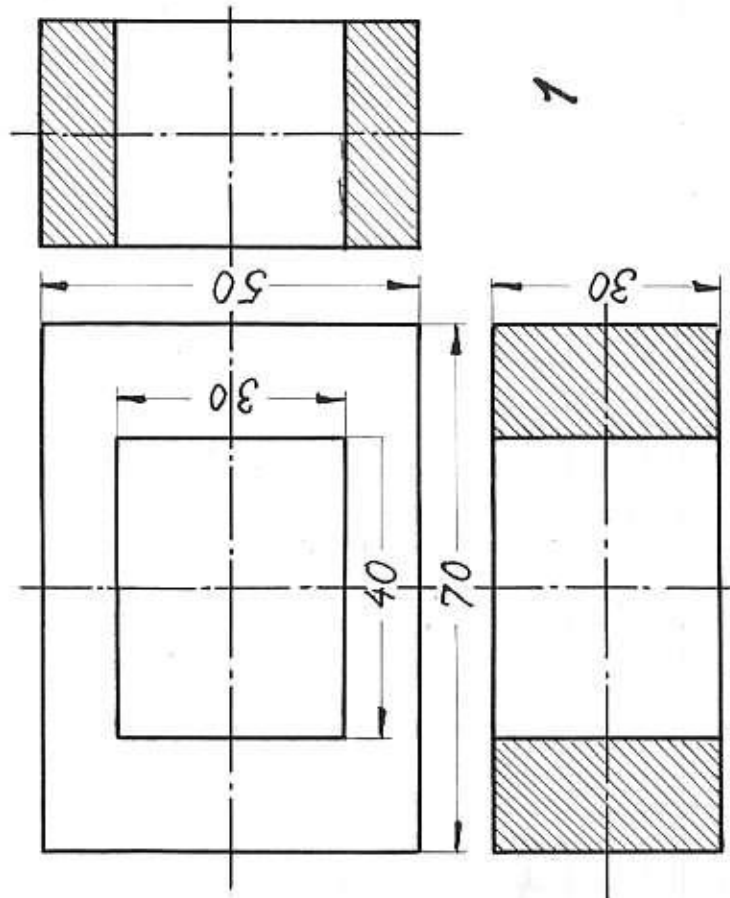
Zahlen!!

Werkstoff	Gezeichnet	13.7.60	Berufsschule Nürnberg	Kurs PFMIC	Zeichnungs. Nr. 108
	Geprüft	A. S. G. G.			
Maßstab	Abwicklung				

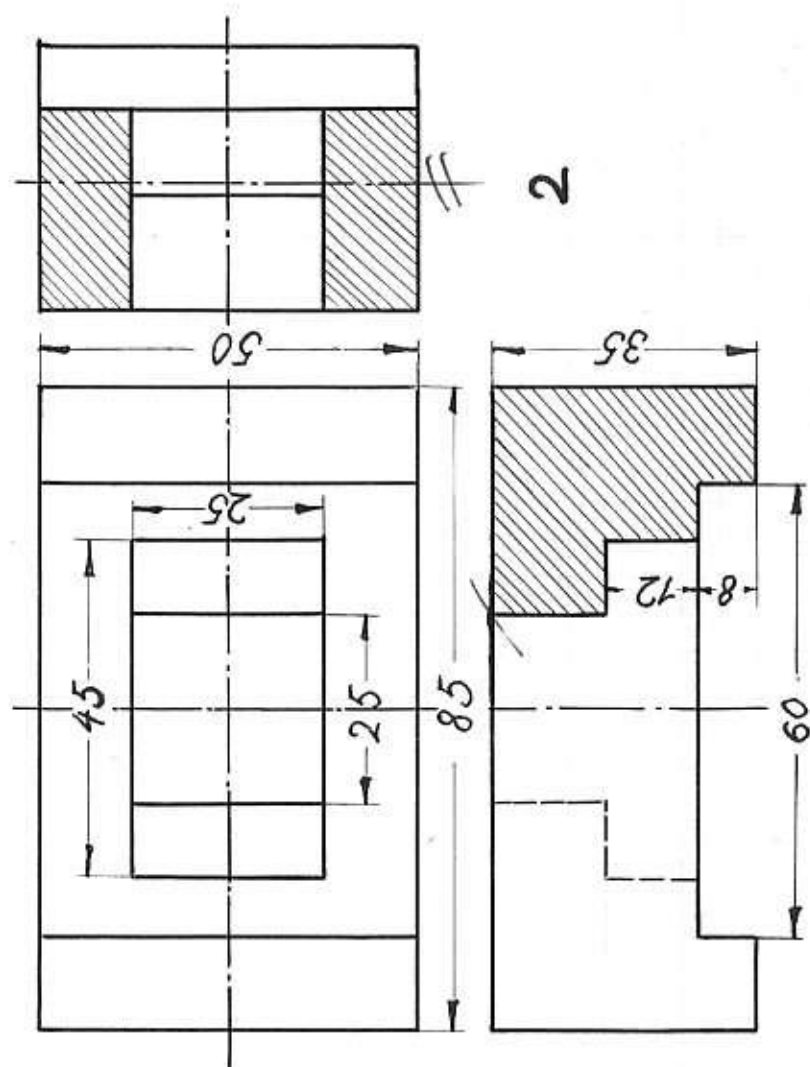


75°

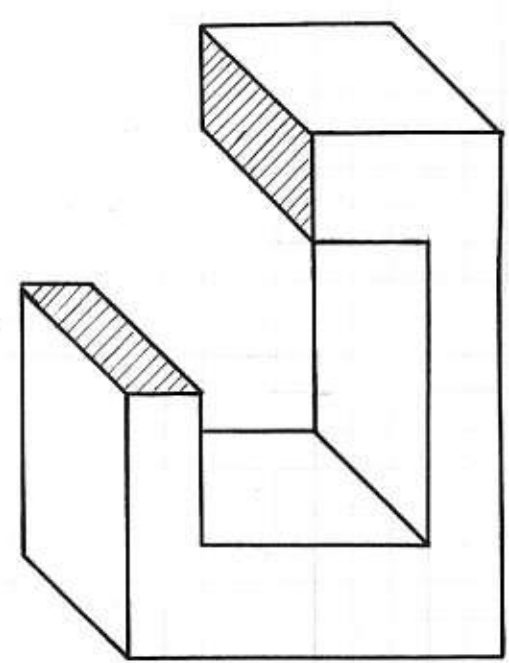
Werkstoff	Gezeichnet	27.1.69	Berufsschule Nürnberg	
Maßstab	Geprüft	4.5.69	Kurs PFM I C	
Werkstück durchbrochen			Zeichnungs-Nr. 109	



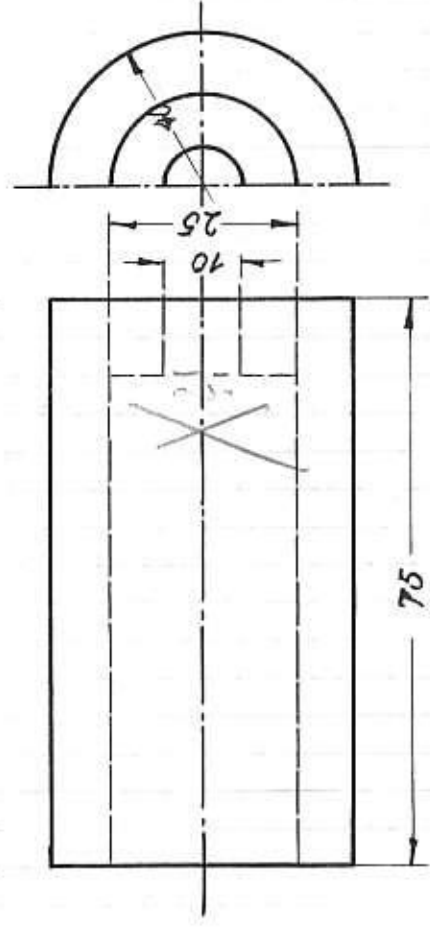
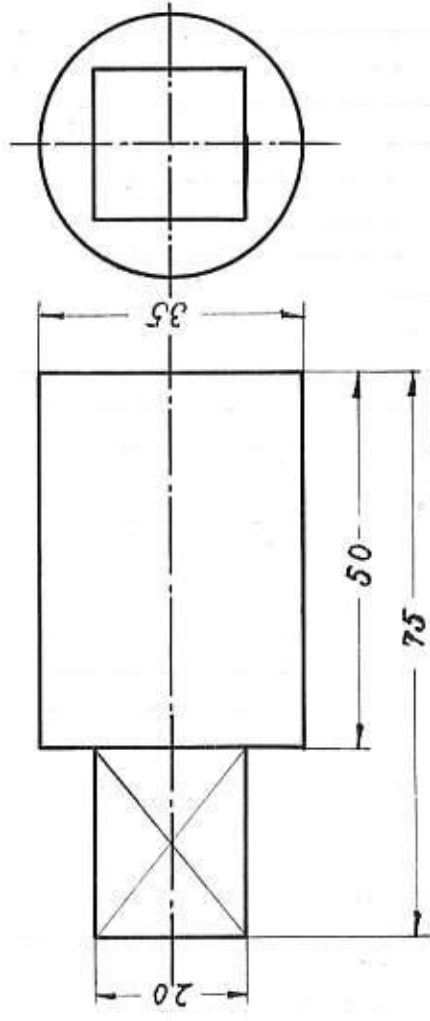
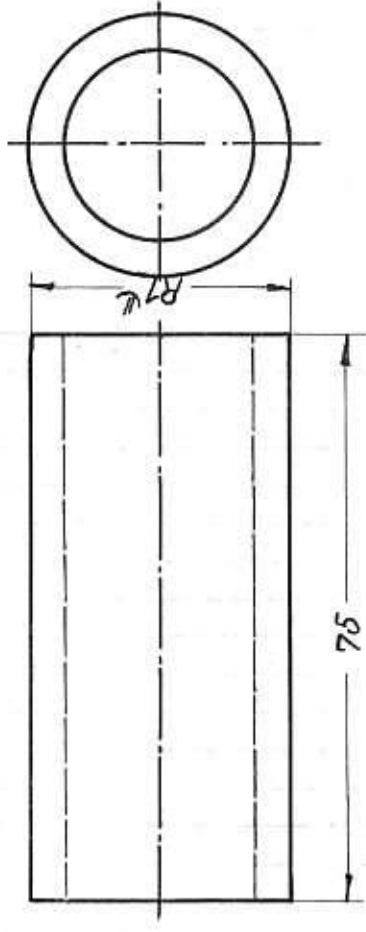
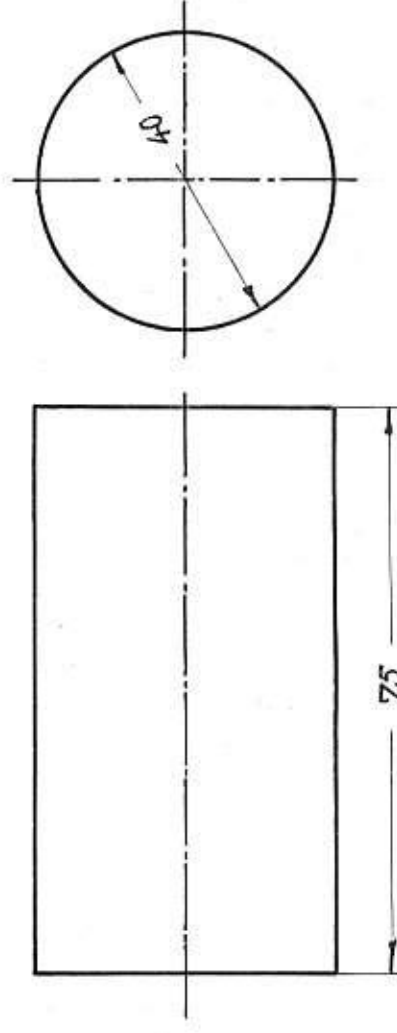
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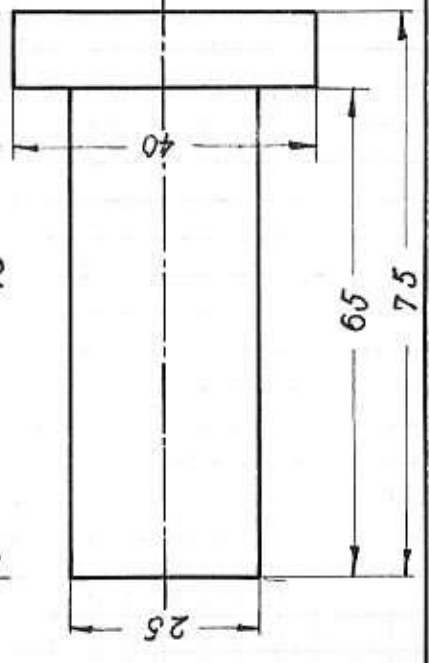
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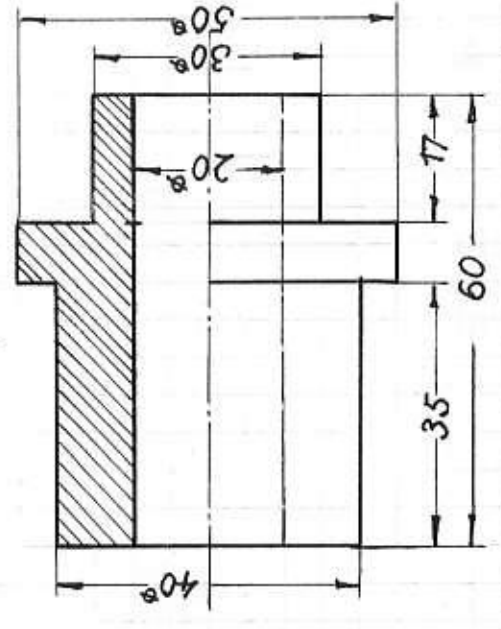
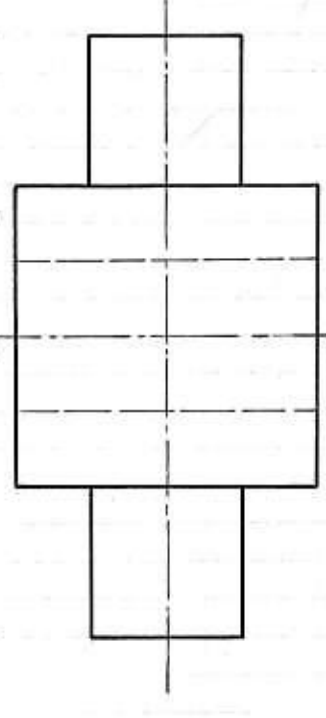
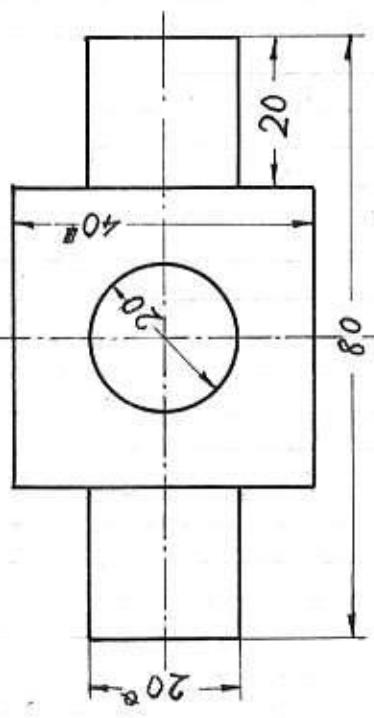
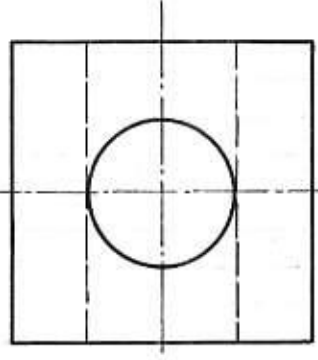
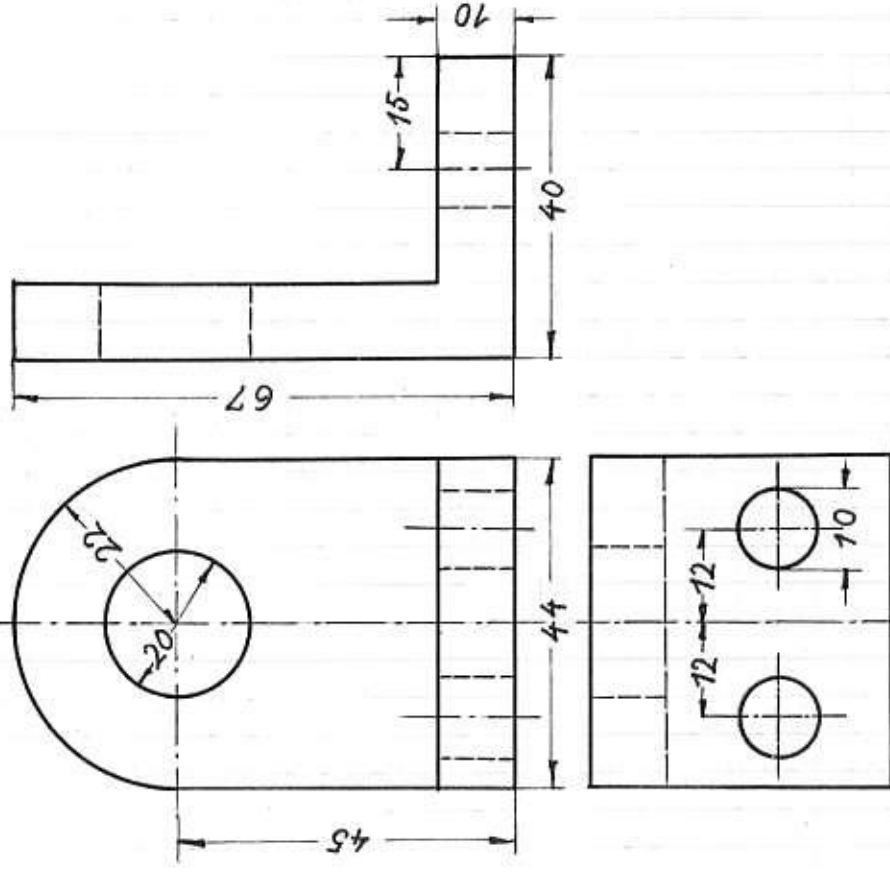


Werkstoff	Gezeichnet	10.2.60	-3 Ch	Berufsschule I Nürnberg
	Geprüft	10.2.60		
Maßstab	Werkstück № 109 im Schnitt			Kurs PFmIC Zeichnungs Nr. 700

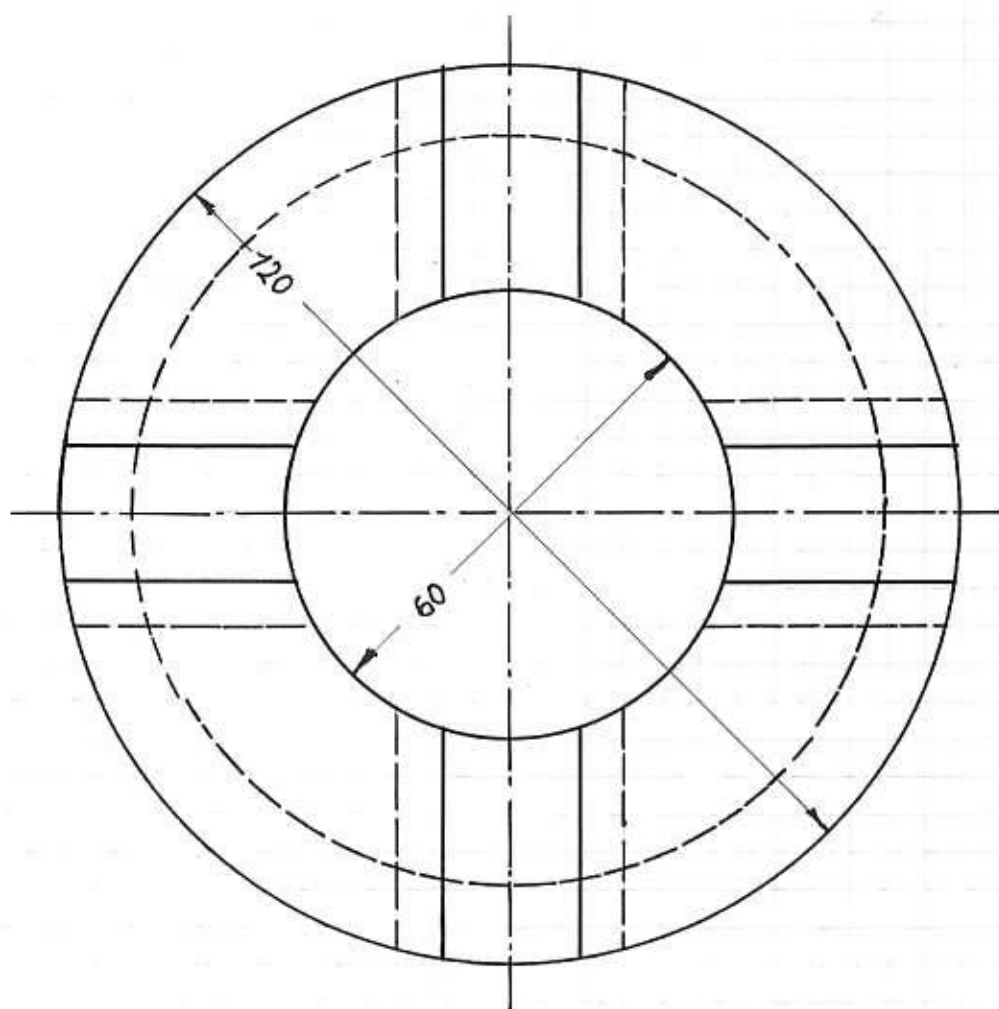
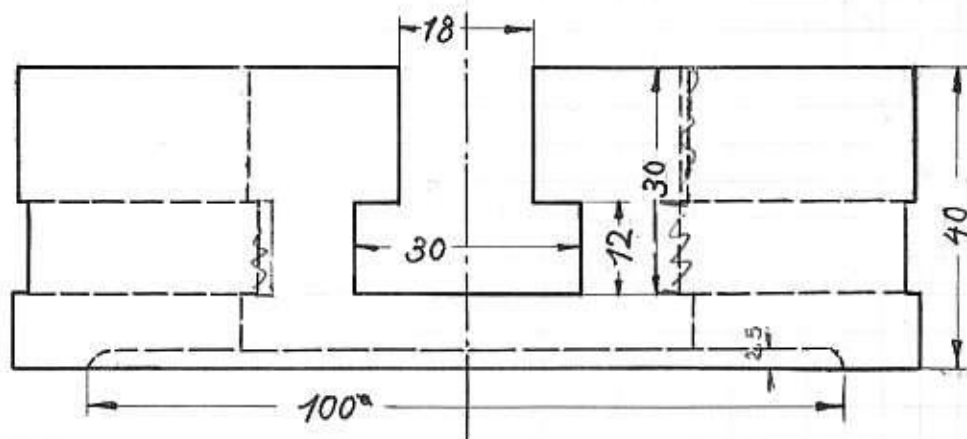


Werkstoff	Gezeichnet	24.2.60		Berufsschule I Nürnberg
	Geprüft	4.5.60		
Maßstab	Rundkörper			Kurs PFMIC Zchg Nr. 111

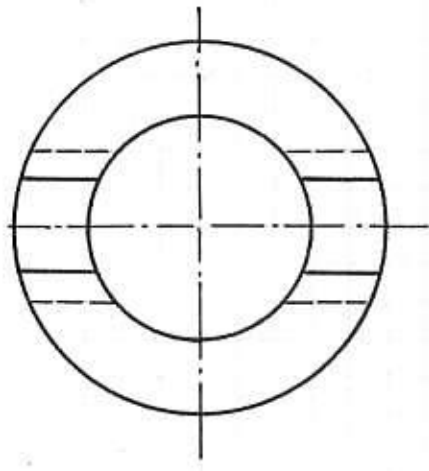
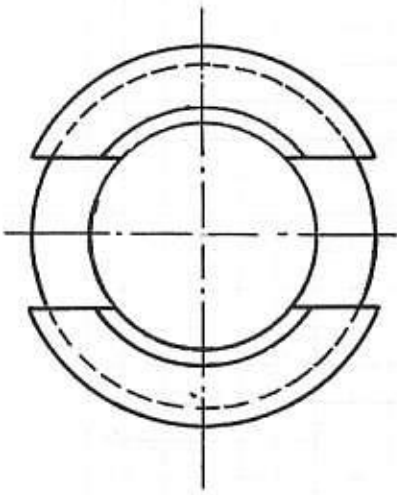
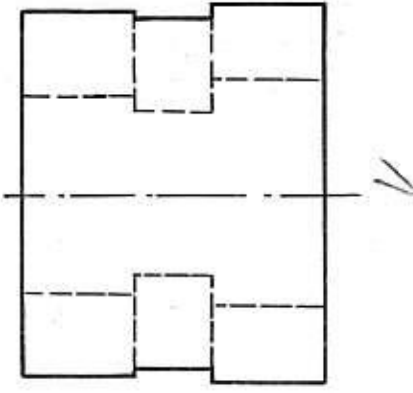
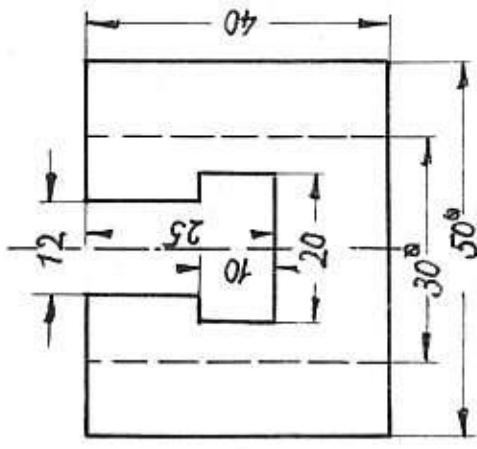
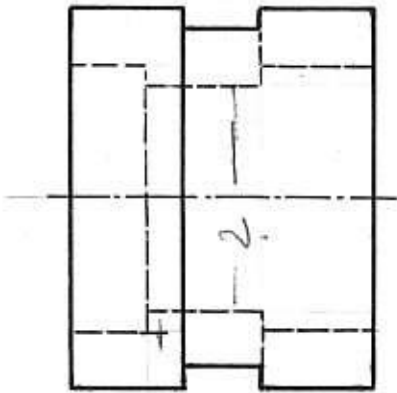
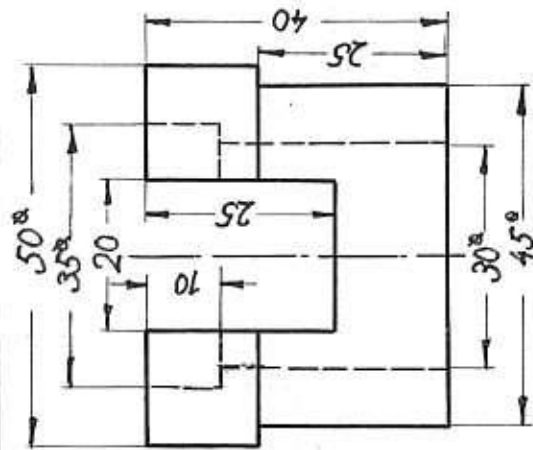




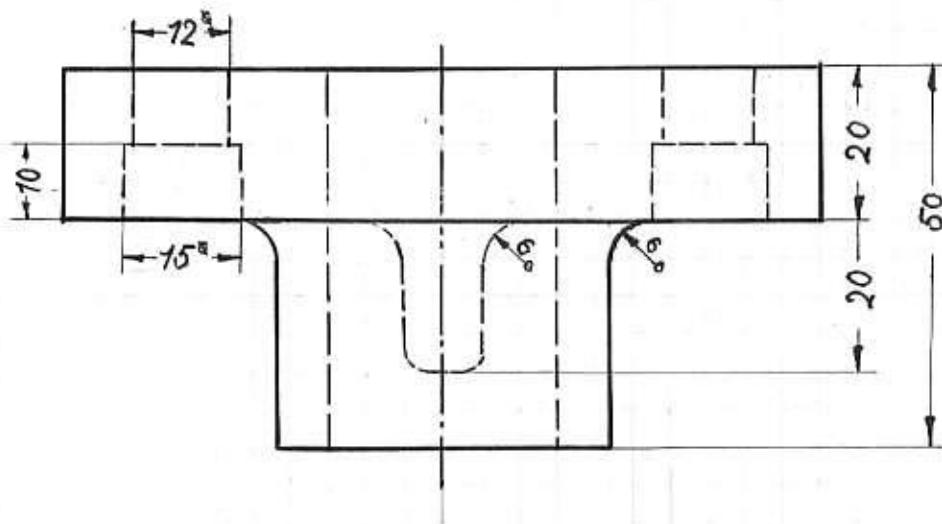
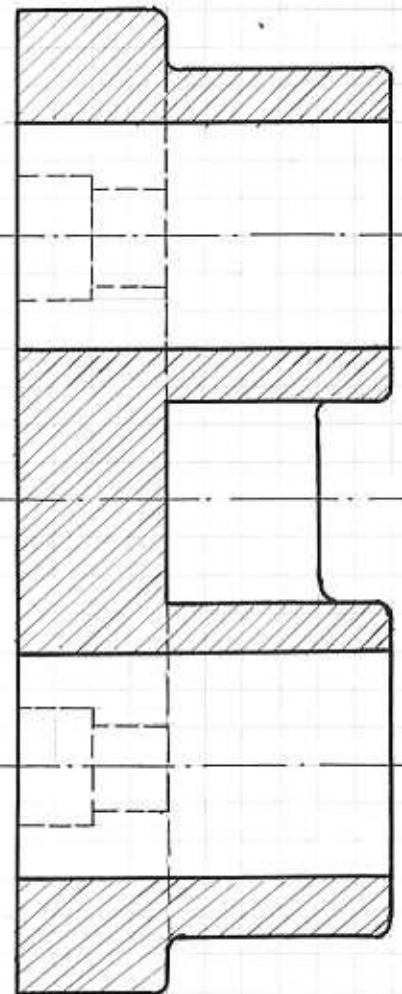
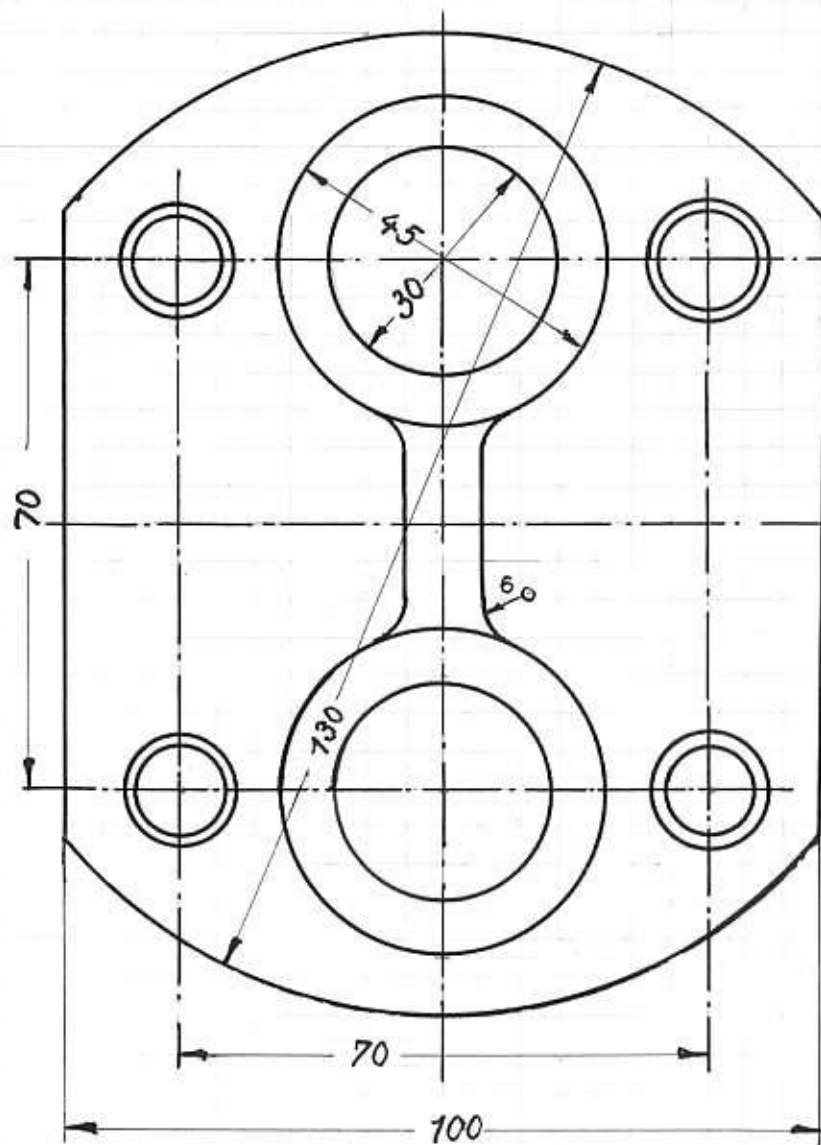
Werkstoff	Gezeichnet	9.2.60	Berufsschule I Nürnberg
Maßstab	Geprüft	4.5.60	
Zeichnung nach Diktat			Kurs PFMIC
			Zeichn. Nr. 112



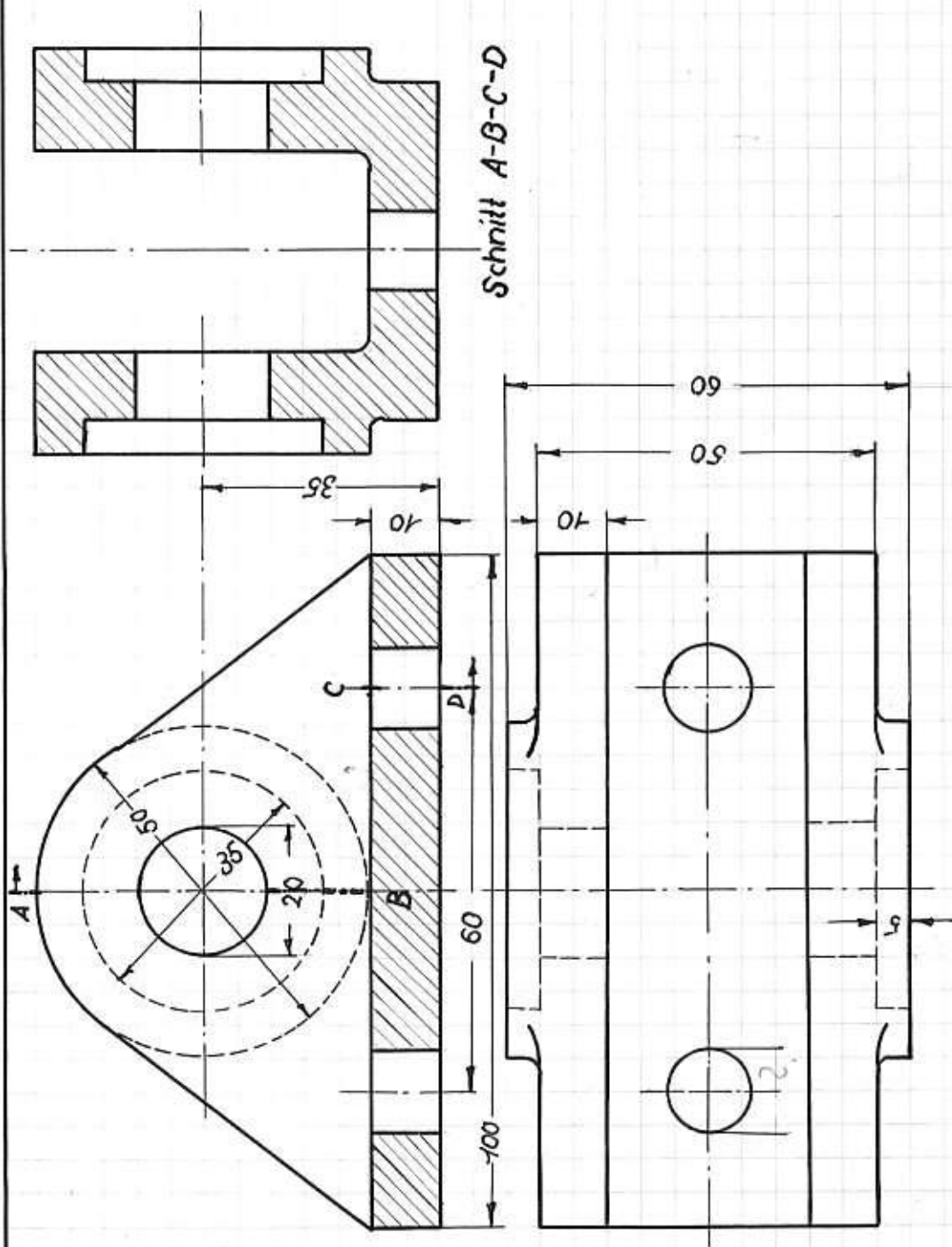
Werkstoff	Gezeichnet	23.3.60	Berufsschule I Nürnberg
	Geprüft	23.3.07	
Maßstab	Spannplatte 75°		Kurs PFM I C Zeichngs. Nr. 113



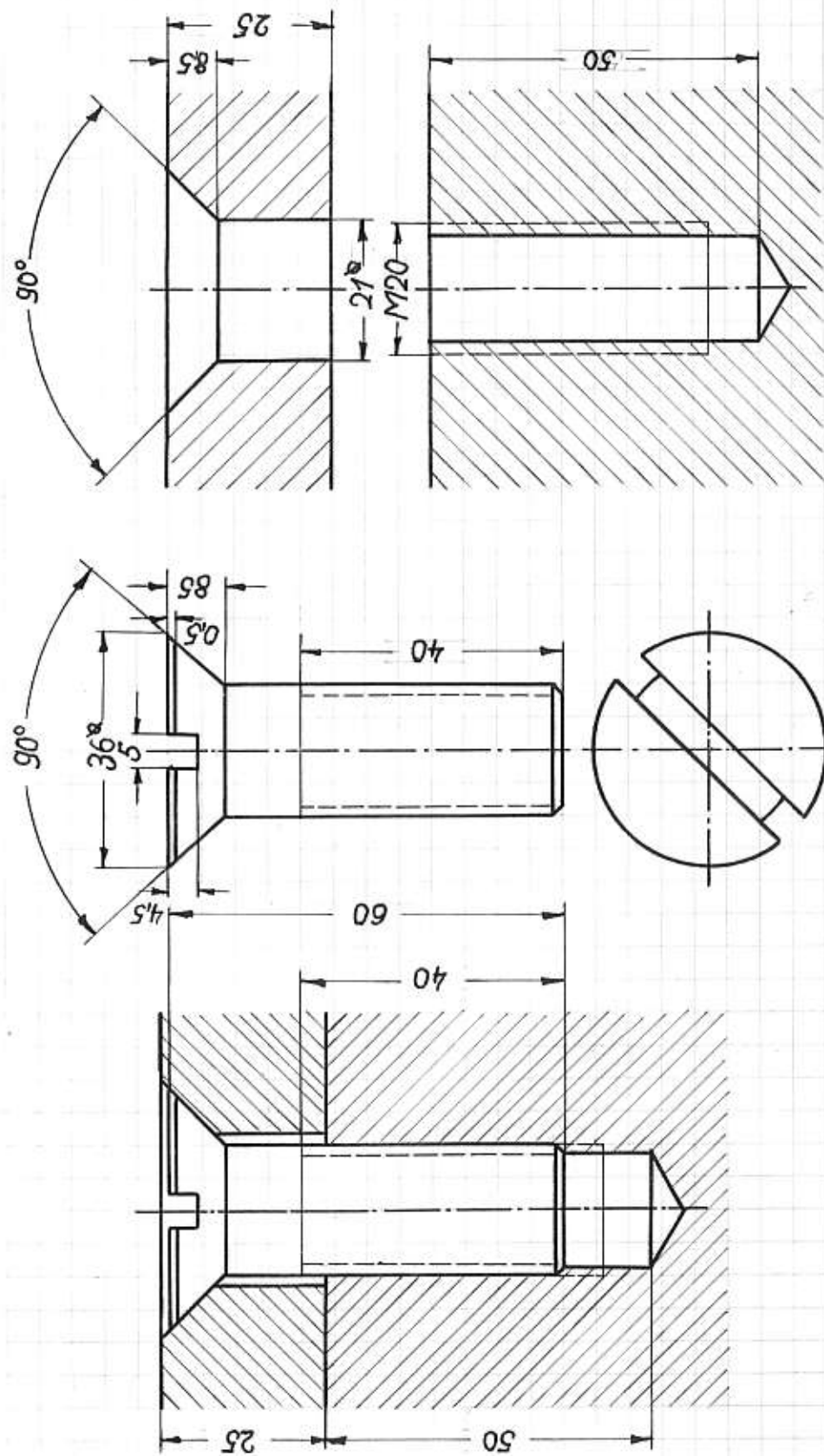
Werkstoff	Gezeichnet	6.4	60	Berufsschule Nürnberg	Kurs PFM IC Zeichnungs-Nr 114
Maßstab	Geprüft	4.5.	60		
Drehteile mit Nuten					



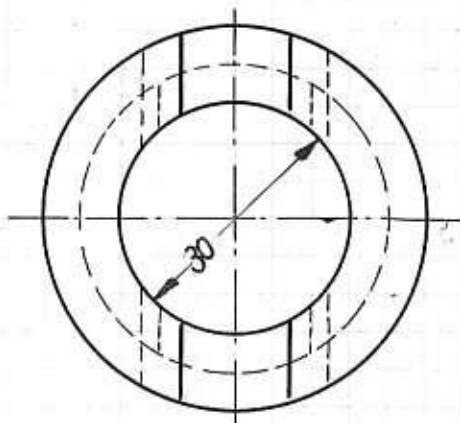
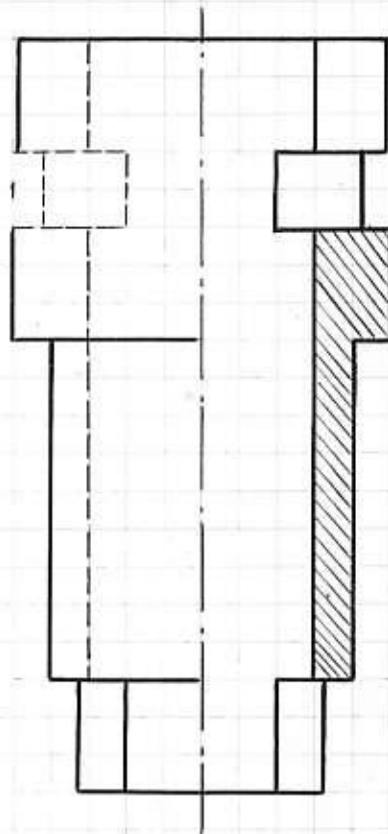
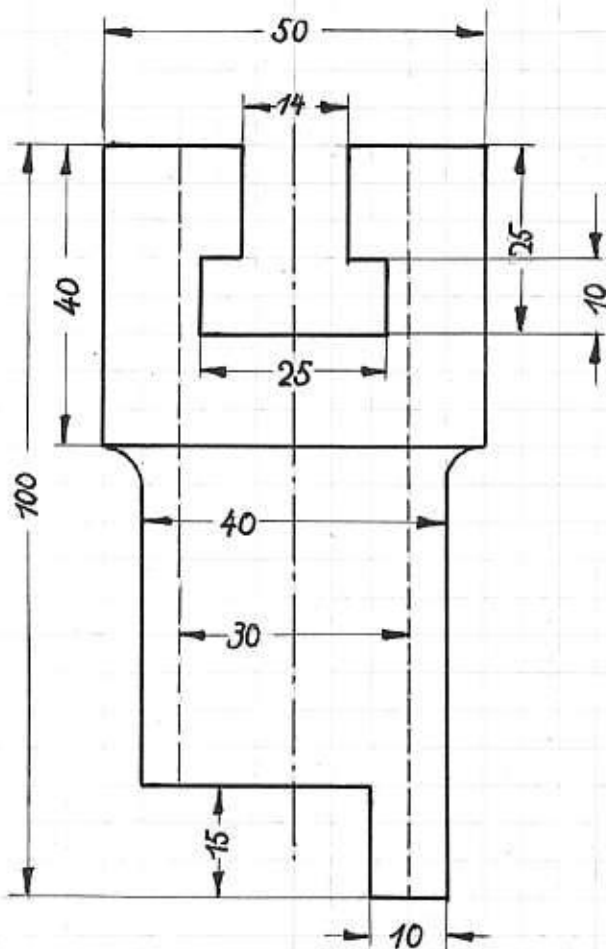
Werkstoff	Gezeichnet	4.5.60	Berufsschule I Nürnberg
	Geprüft	14.6	
Maßstab	Doppelflanschlager		Kurs PFM IC Zeichnung Nr. 115



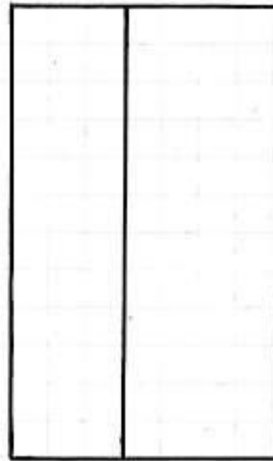
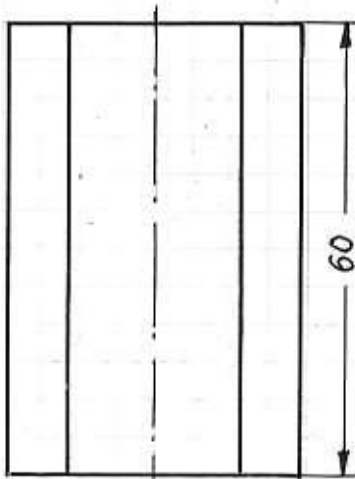
Werkslaff	Gezeichnet	1.6.60	Berufsschule I Nürnberg
	Geprüft	15.6.60	
Maßstab	Doppellager aus GG-18		Kurs P1m I C Zeichn. Nr. 116



Werkstoff	Gezeichnet	13.7.60		Berufsschule Nürnberg
	Geprüft			
Maßstab	Senkschraube M 20 x 60			Kurs PFm I C
				Zeichnungs-Nr. 117

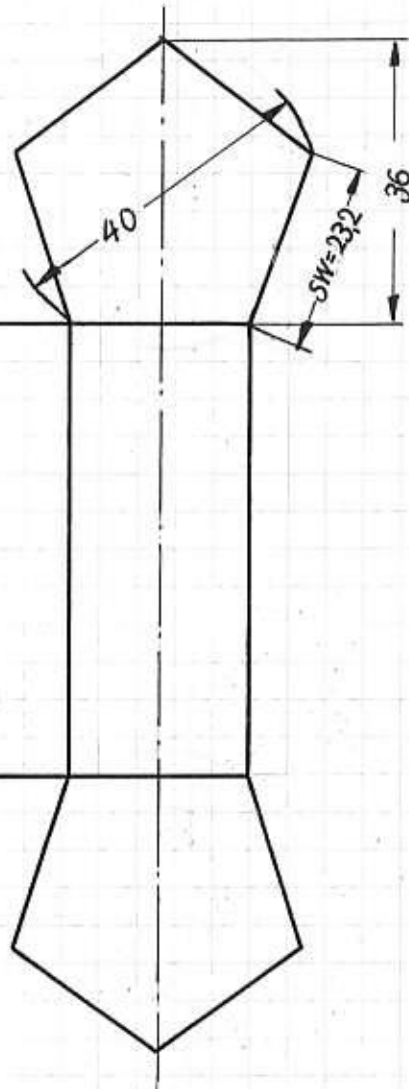
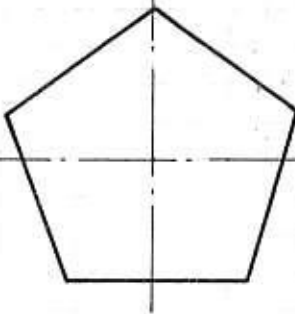


Werkstoff	Gezeichnet	14.10.60	Berufsschule I Nürnberg
	Geprüft		
Maßstab	Kupplungstück		Pfm II C Zeichn. Nr. 201

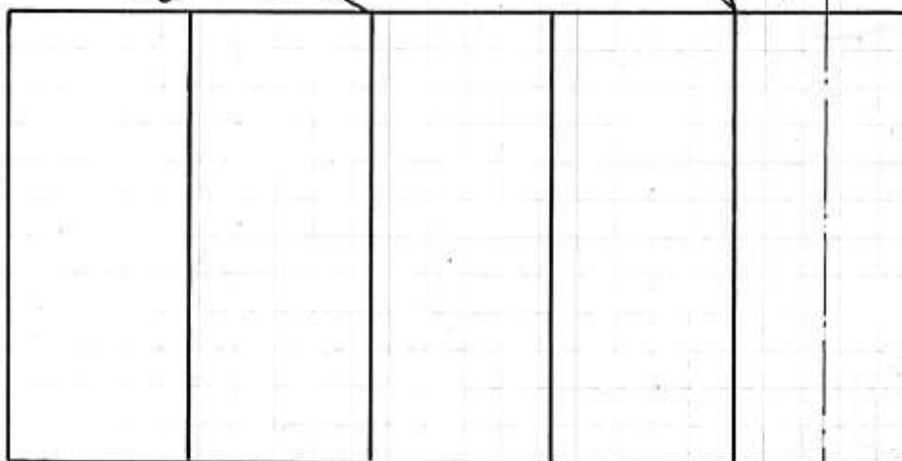


Seitenlänge
 $s = r \times 1,176$
 $s = 20 \times 1,176 = 23,56 \text{ mm}$

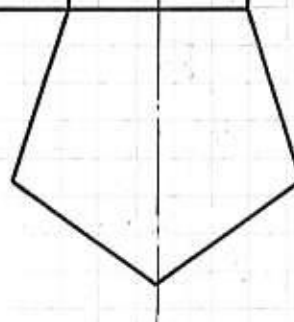
Höhe
 $h = s \times 1,539$
 $h = 23,56 \times 1,56 \times 1,539 = 3,63$



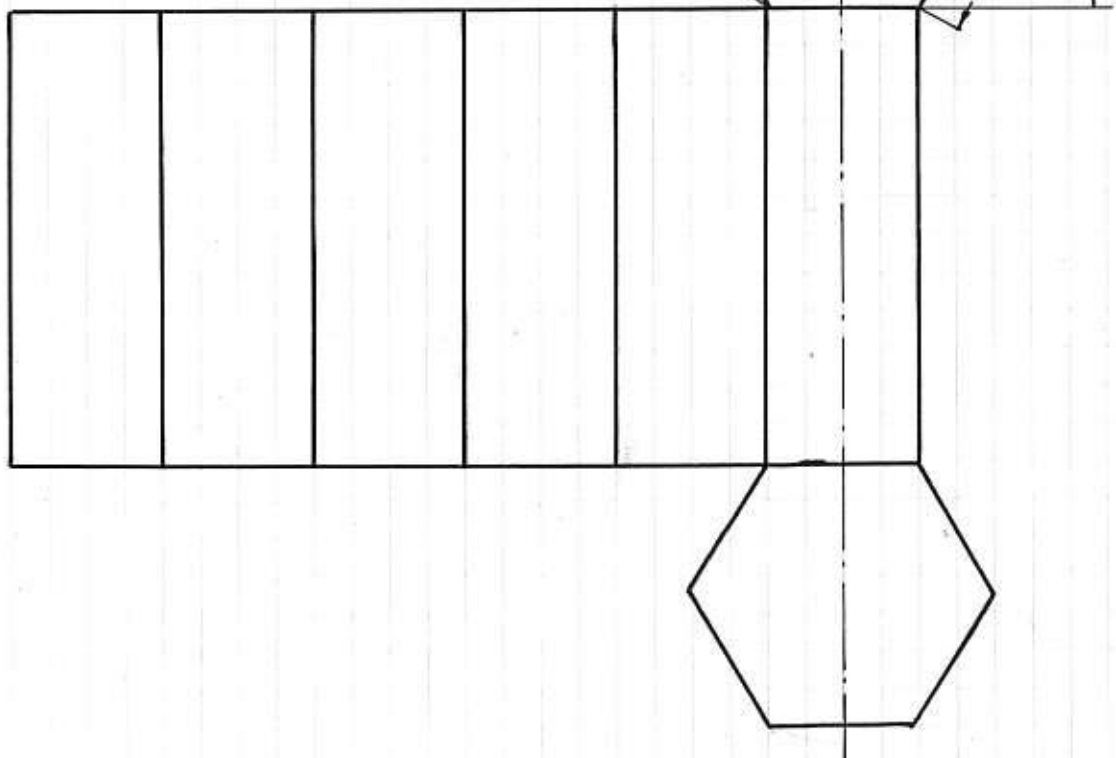
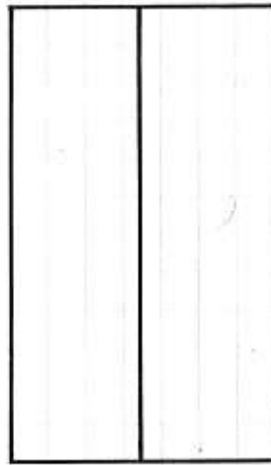
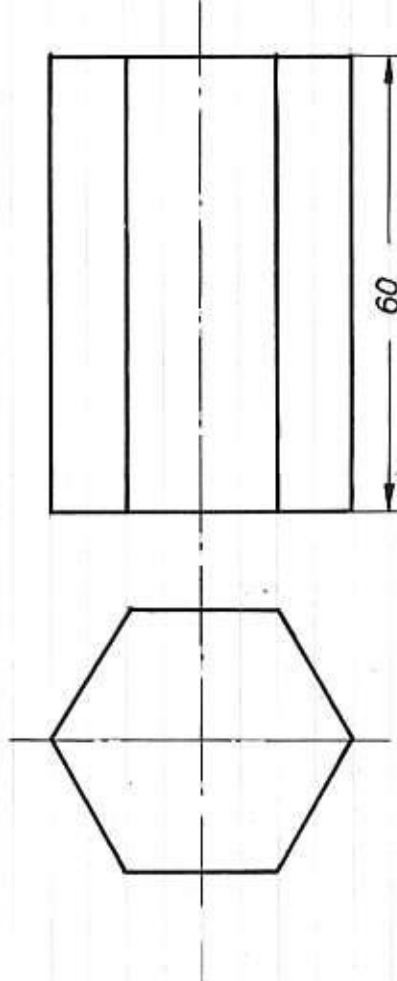
Biegeanten



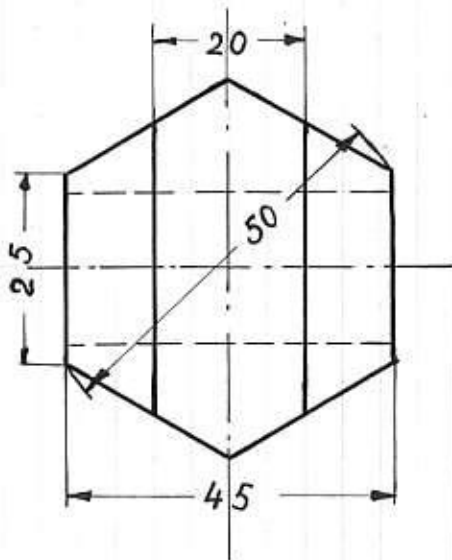
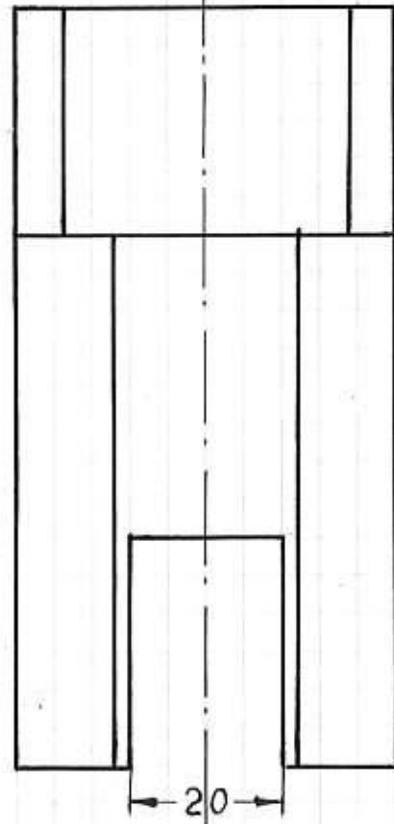
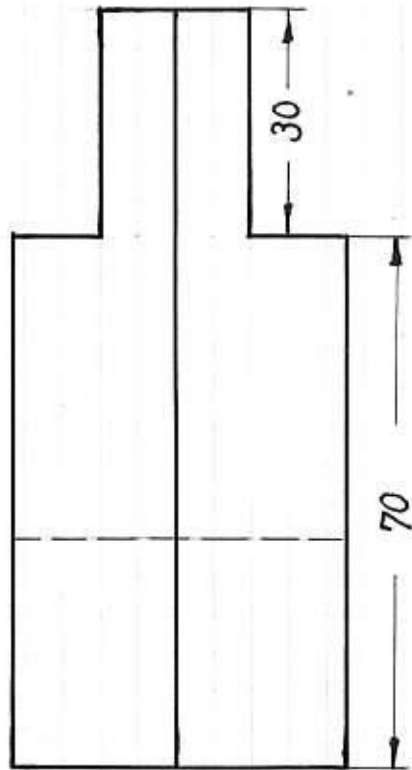
Abwicklung



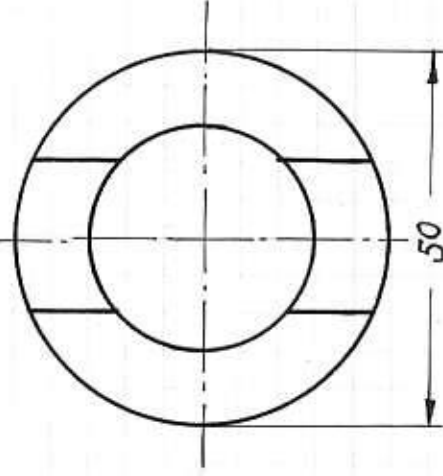
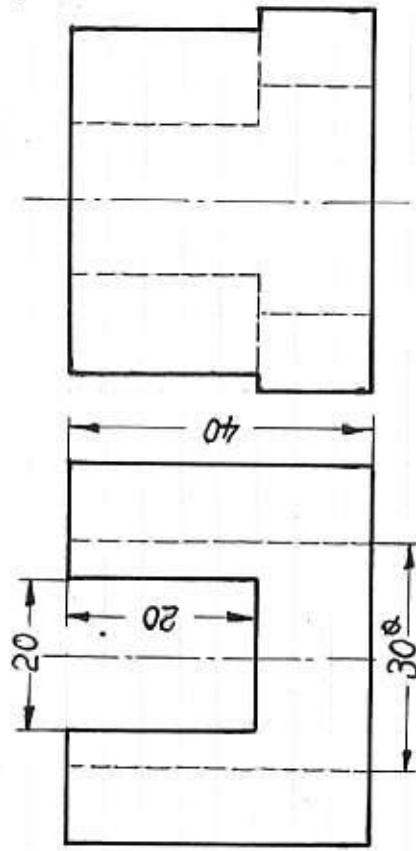
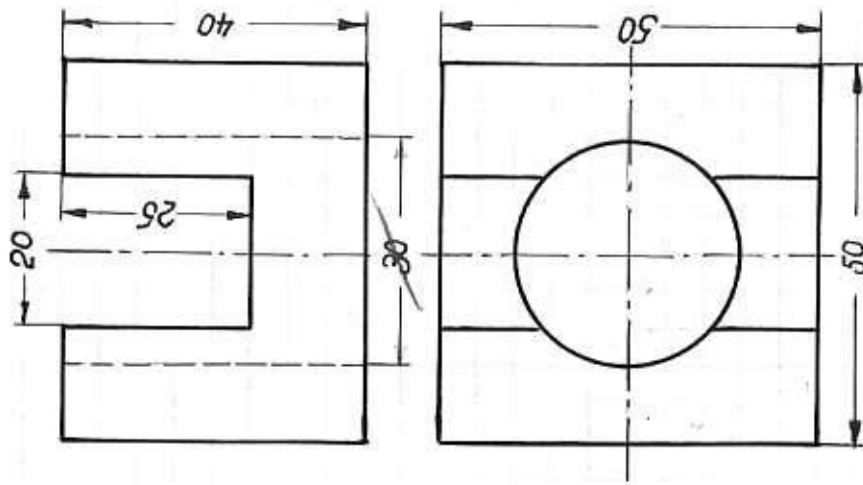
Werkstoff	Gezeichnet	14.10.60	Berufsschule I Nürnberg
	Geprüft		
Maßstab	Fünfeckiges Prisma		Pfm II C Zeichn. Nr. 202



Werkstoff	Gezeichnet	14.10.60	Berufsschule I Nürnberg
	Geprüft		
Maßstab	Sechseckiges Prisma		Pfm II C Zeichn. Nr. 203

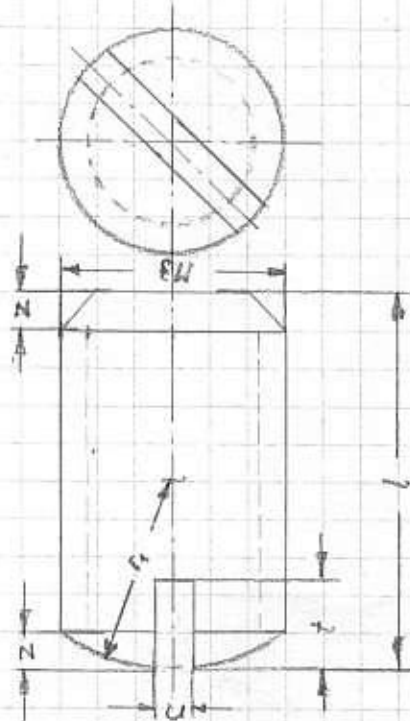
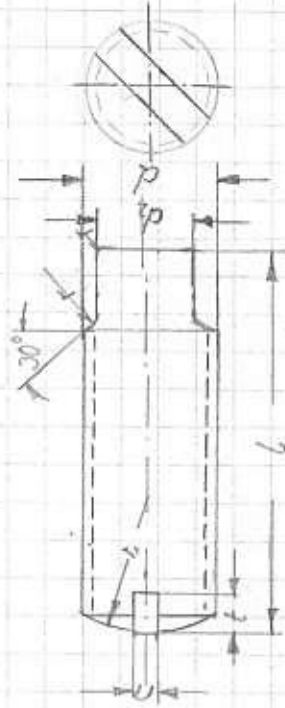
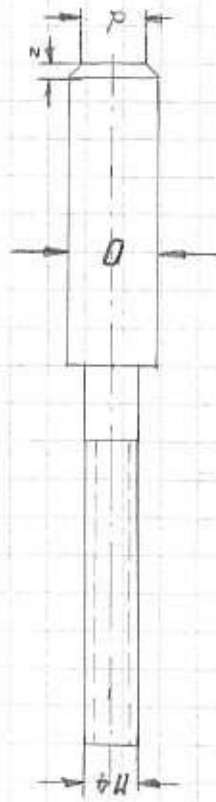


Werkstoff	Gezeichnet	18.11.60	Berufsschule I Nürnberg
	Geprüft		
Maßstab	Sechseckiges Prisma mit Steg u. Nute		Pfm II C Zeichn. Nr. 204

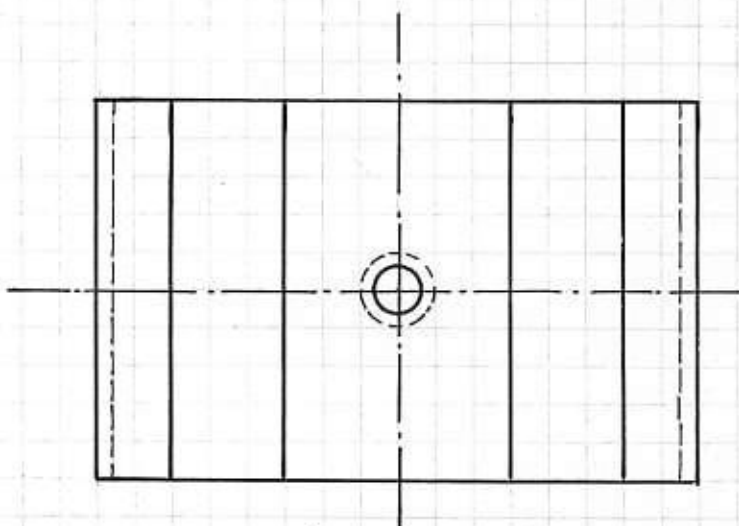
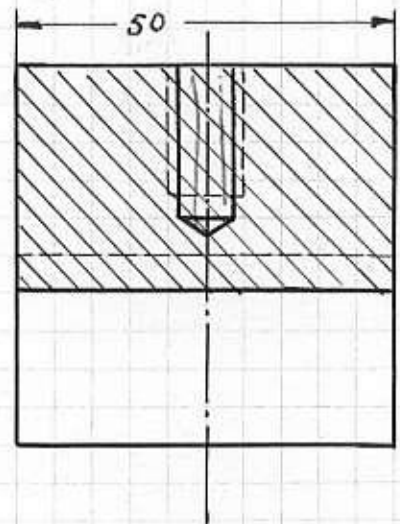
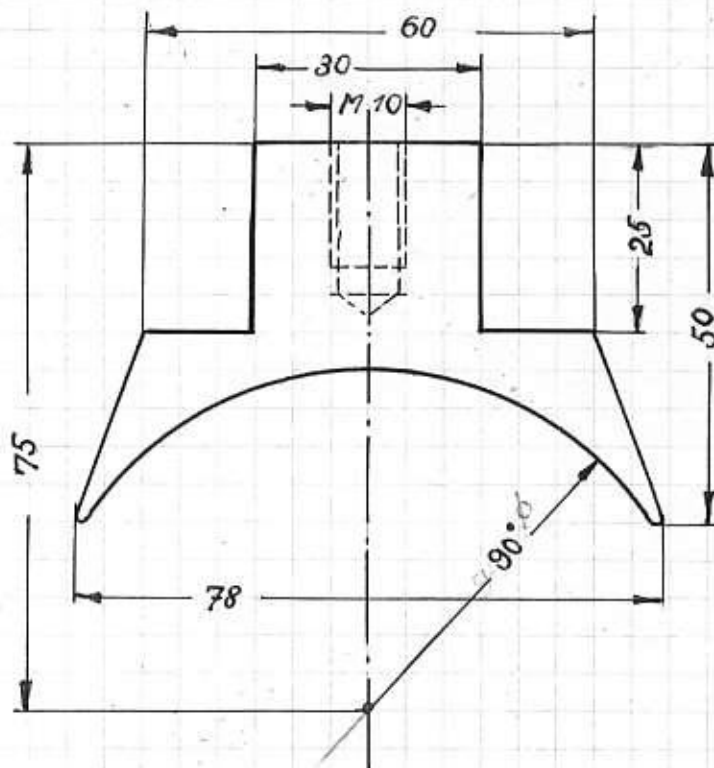


Werkstoff	Gezeichnet	Berufsschule Nürnberg	
Maßstab	Geprüft		
		Pfm IIc	
		Zeichn. Nr. 206	

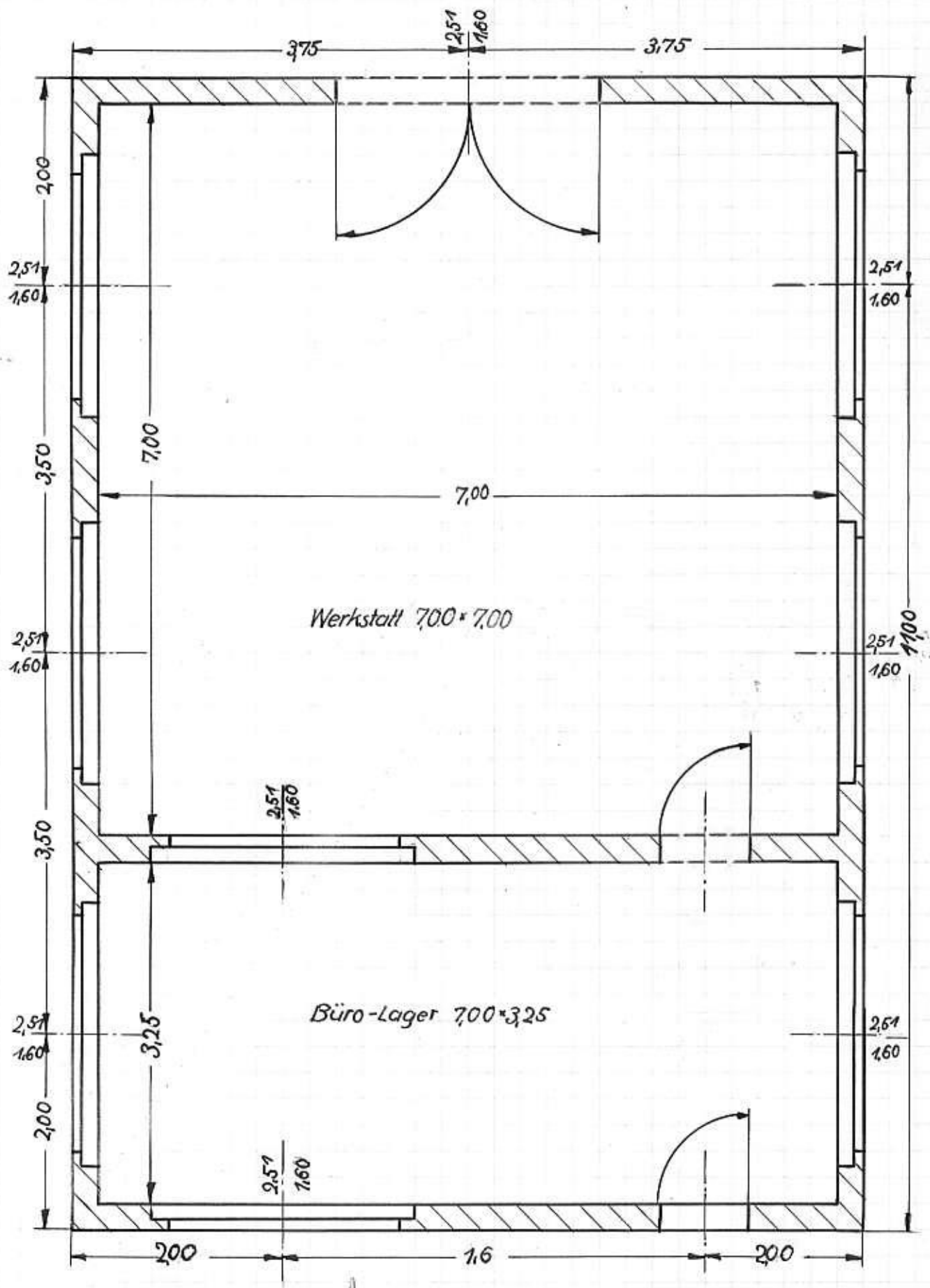
Werkstücke mit Nuten



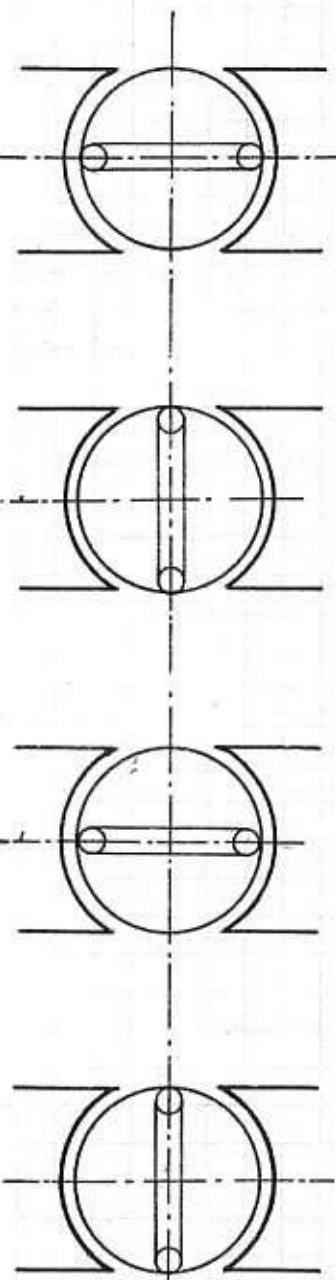
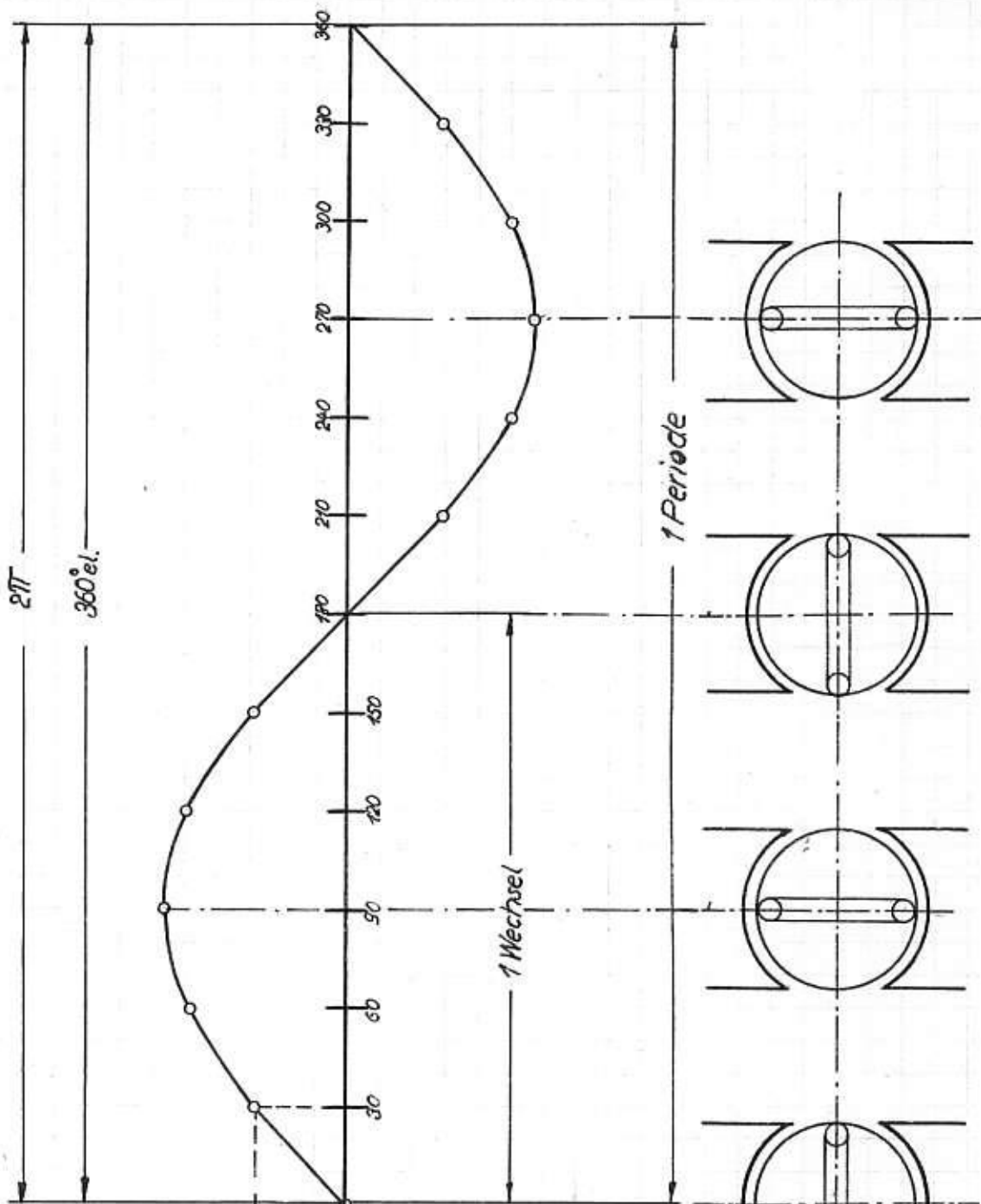
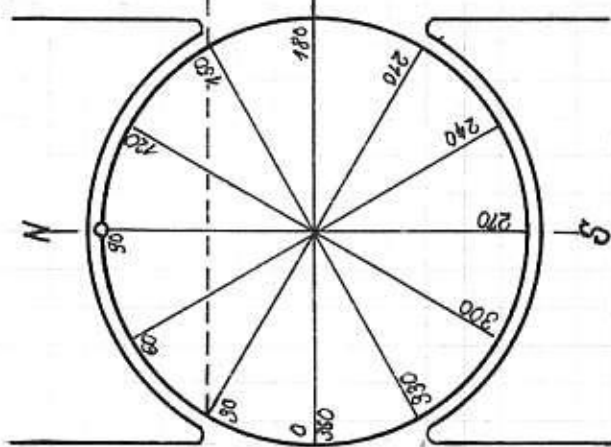
Werkstoff	Gezeichnet	Berufsschule I Nürnberg
Maßstab	Geprüft	
Verschiedene Schrauben mit Außengewinde		
		Plm/lc
		Zeichn. Nr. 206



Werkstoff	Gezeichnet	6.2.61	Berufsschule Nürnberg
	Geprüft	3.3.0h	
Maßstab	Polschuh aus Stahlguß		Pfennig Zeichn. Nr. 207



Werkstoff	Gezeichnet	3.2.61	Berufsschule I Nürnberg
	Geprüft	3.3.0h	
Maßstab	Kleinbetrieb, Betonbau		Pfm Ilc Zeichn. Nr. 208



Frequenz f in Hz

$$f = \frac{p \times n}{60}$$

n = Drehzahl in Min.

p = Polpaarzahl

Beispiel:

$$p = 1$$

$$n = 1500$$

$$f = \frac{1500 \times 1}{60} = 25 \text{ Hz (Induktor)}$$

$$p = 2$$

$$n = 1500$$

$$f = \frac{2 \times 1500}{60} = 50 \text{ Hz (Netzstrom)}$$

Werkstoff

Gezeichnet

24.2.61

Geprüft

3.3.01

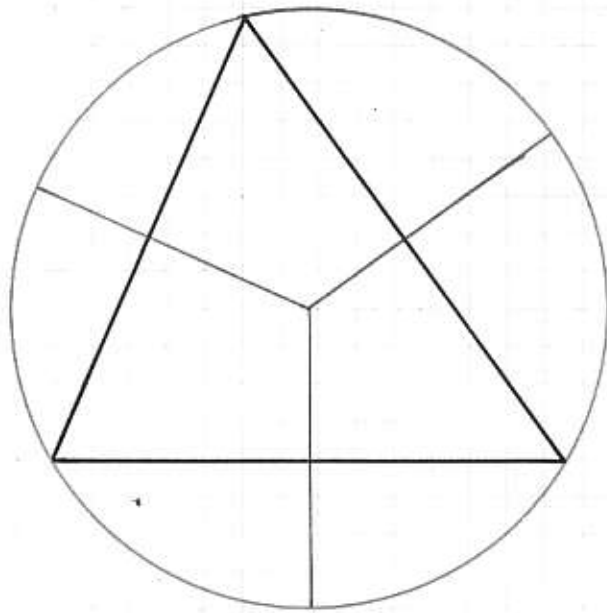
Berufsschule J Nürnberg

Maßstab

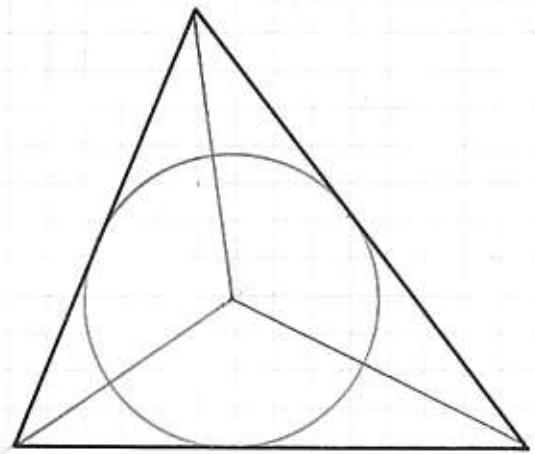
Konstruktion einer Sinuslinie

Pfm JIC

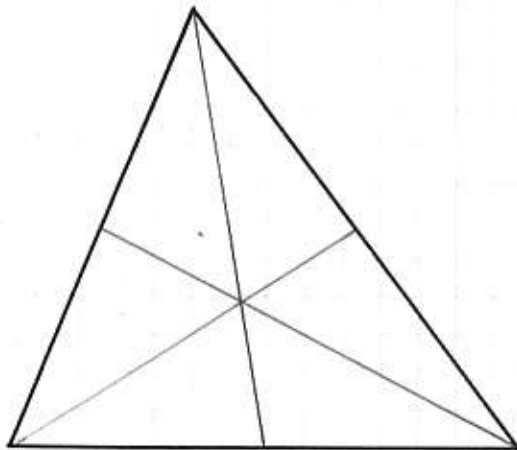
Zeichn. 209



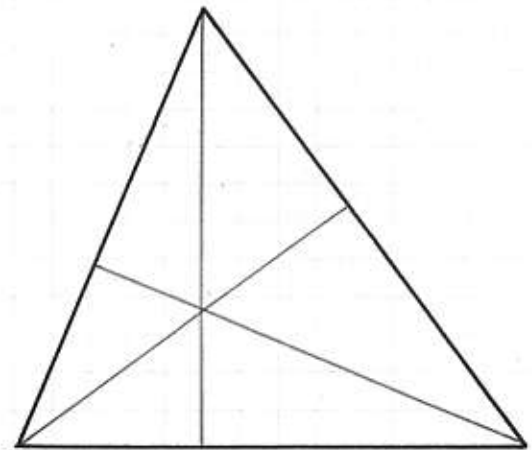
Schnittpunkt der Mittellote
Umkreis



Schnittpunkt der Winkelhalbierenden
(Inkreis)

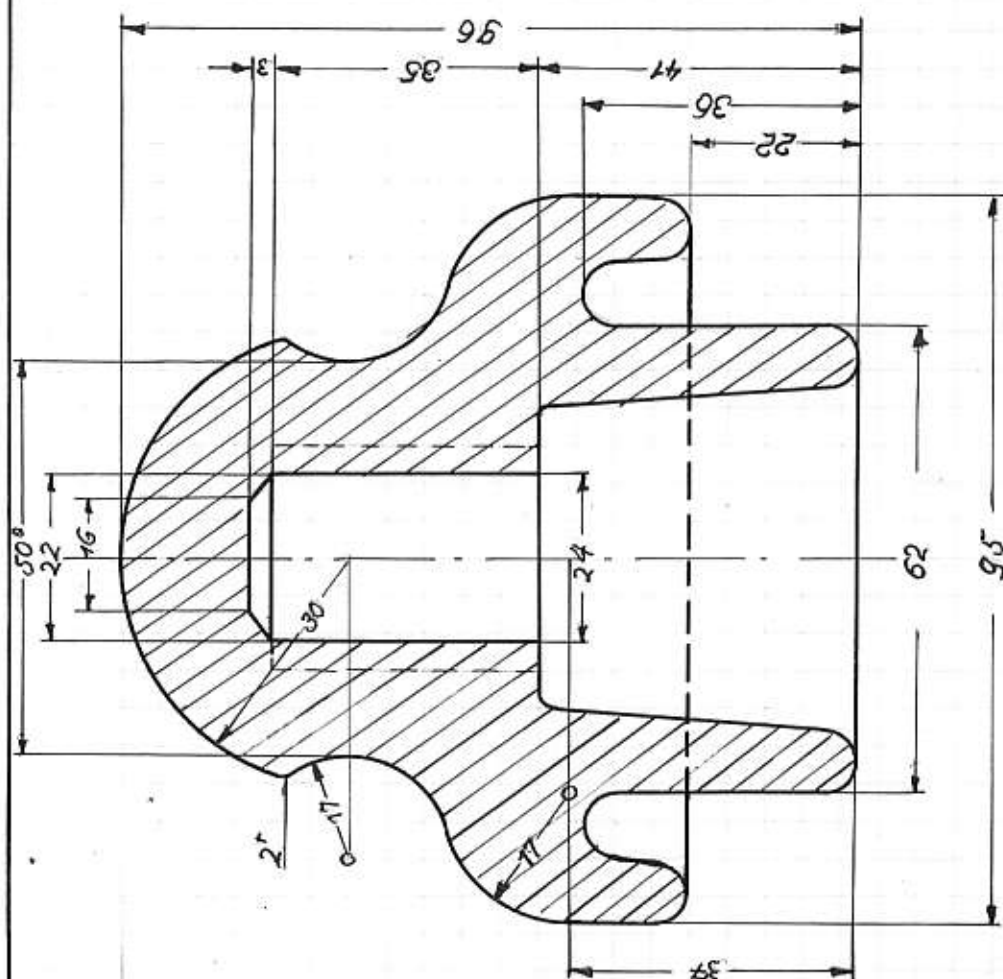
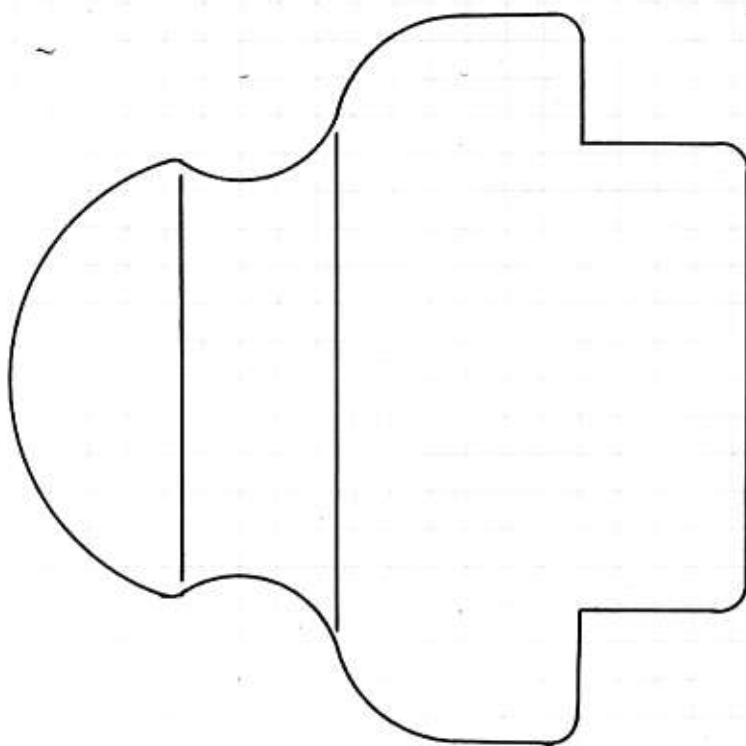


Schnittpunkt der
Schwerlinie

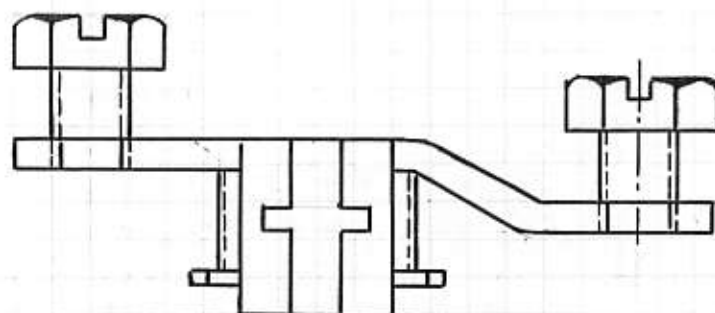
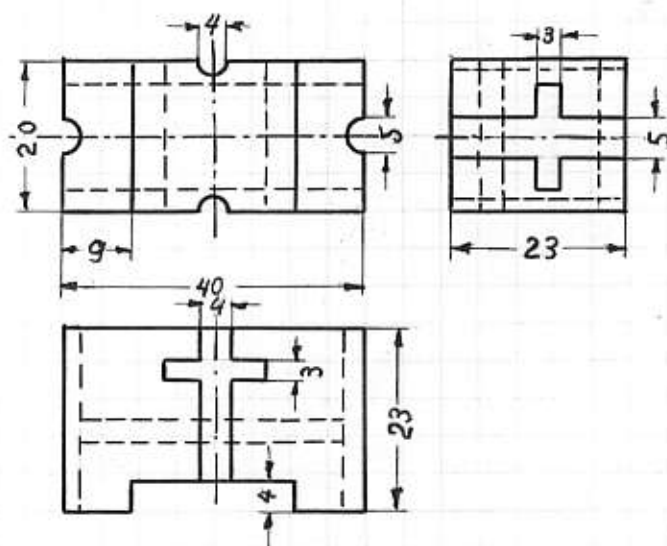
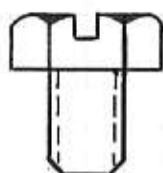
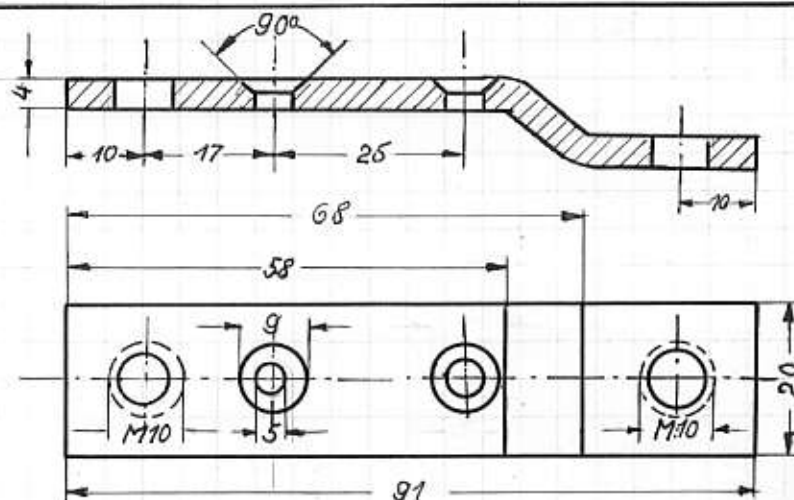
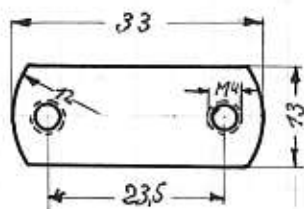


Schnittpunkt der drei
Höhen

	Gezeichnet	28.4.61		Berufsschule I Nürnberg
	Geprüft			
	Die 4merkwürdigen Punkte im Dreieck			Pfm II C Zeichn. Nr. 212

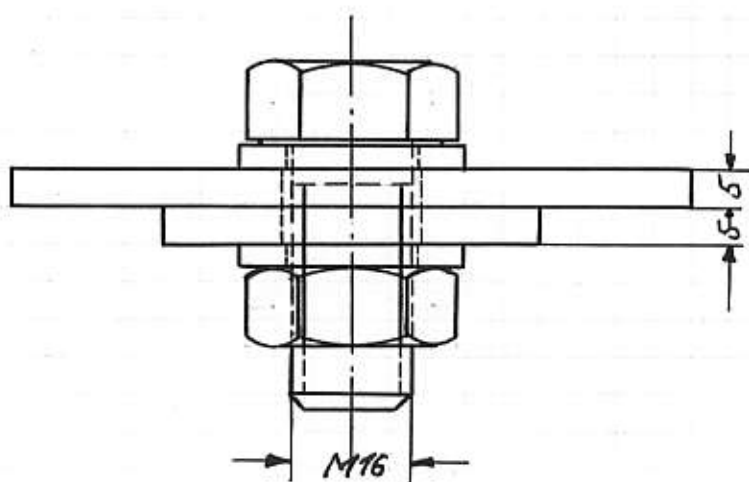
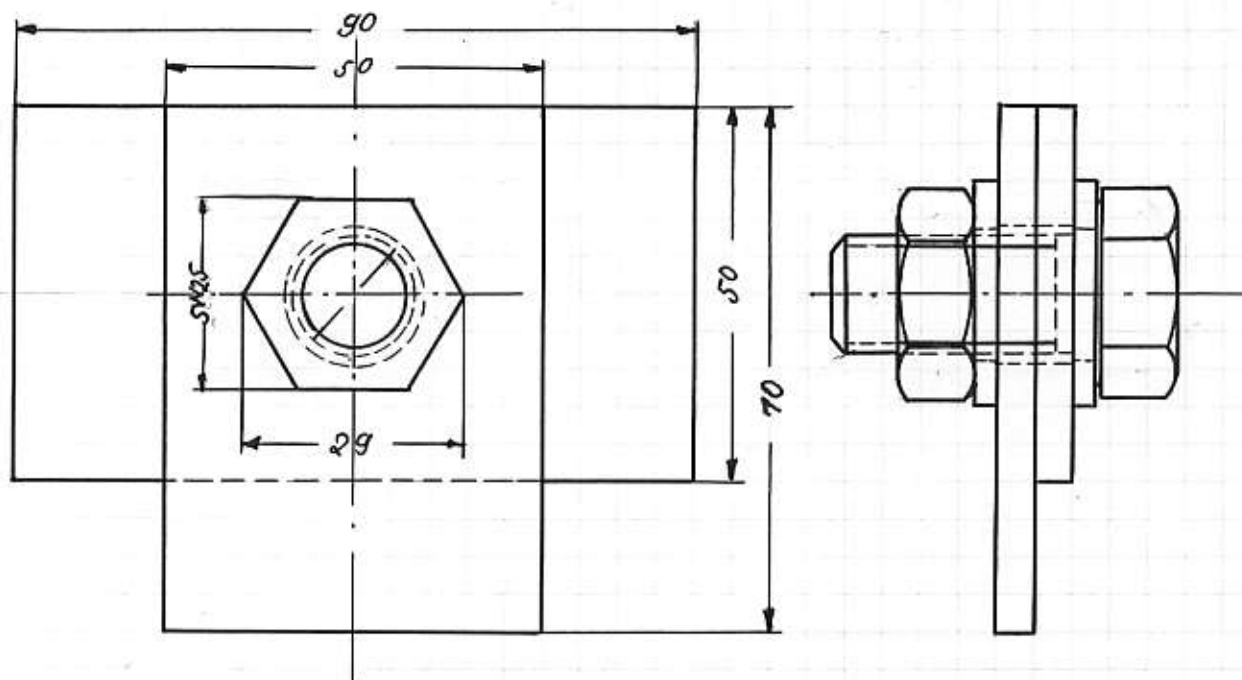


Maßstab	Gezeichnet 96.61		Berufsschule I Nürnberg
	Geprüft		
Werkstoff	Stützisolator Nr. 95		Pfm II C Zeichn. Nr. 210

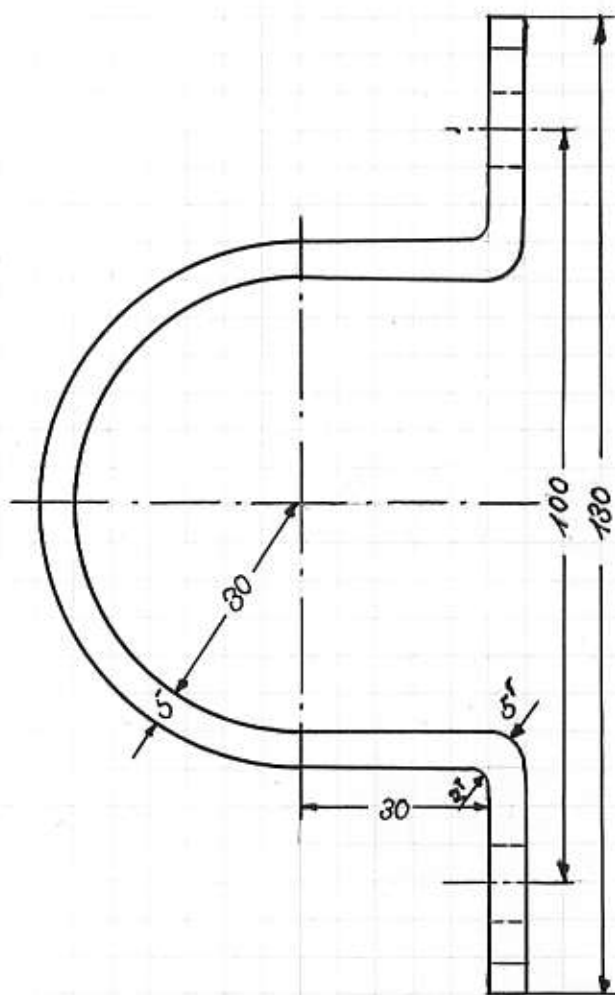


2	Senkschrauben M 4x20	5	—	St3712	—	verzinkt
2	Sechskantschr. M 10x20	4	—	St3712	—	verzinkt
1	Lasche 2x12,5	3	—	St3712	33Lg	verzinkt
1	Sockel	2	—	Steatit	—	—
1	Bügel 4x20	1	—	Ms 80	91Lg	blank
—	—	—	—	—	—	—

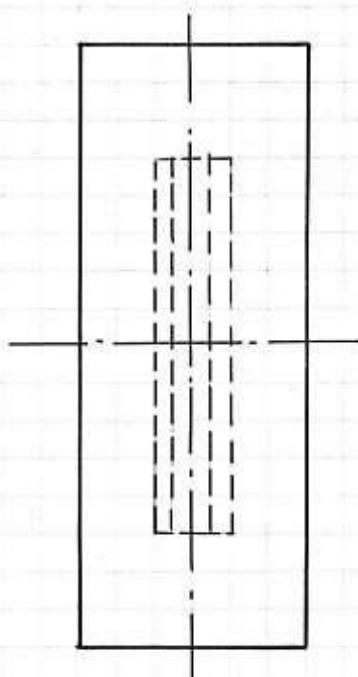
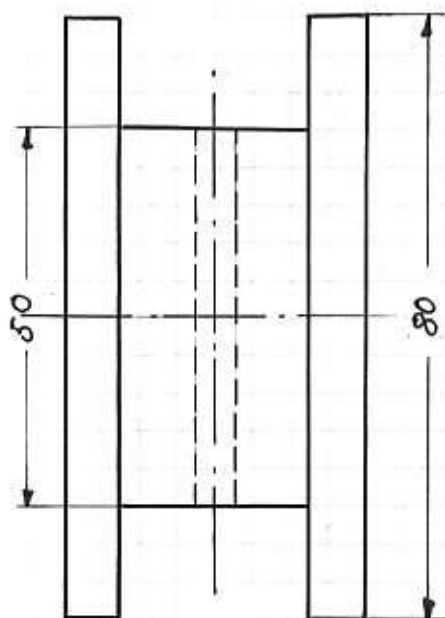
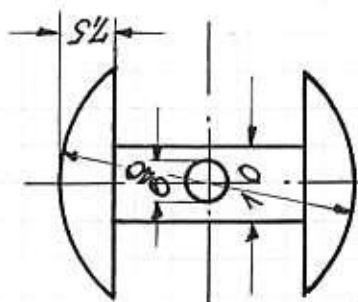
Stückzahl	Benennung	Teil	Zchg.Nr.	Werkstoff	Rohmaße	Bemerk.
Werkstoff	Gezeichnet 21.4.61	Berufsschule I Nürnberg				
	Geprüft					
Maßstab	Reihenklammer					Pfm II C Zeichn. Nr. 211



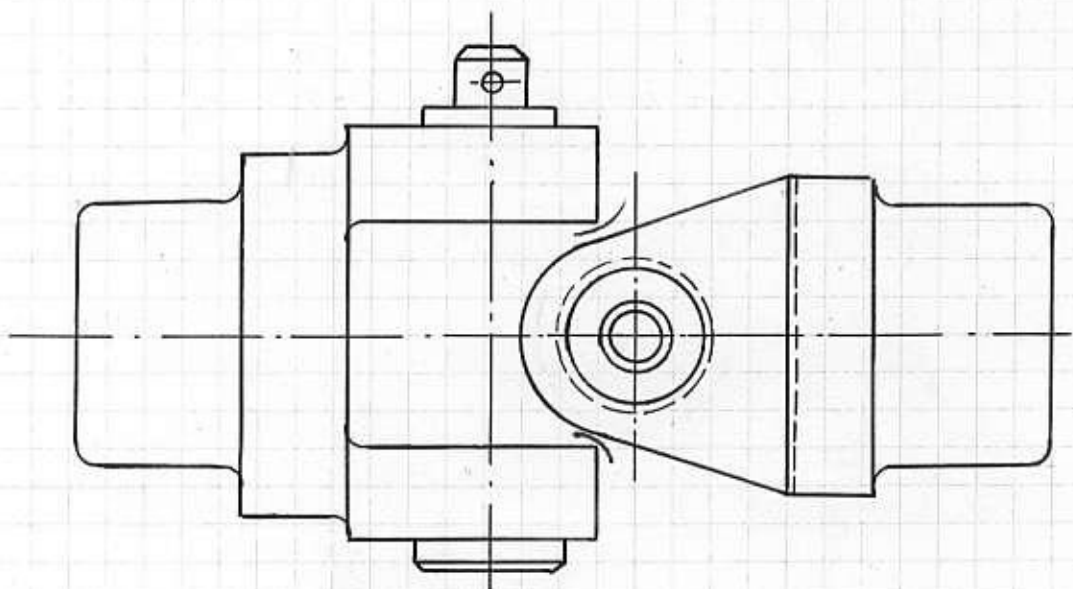
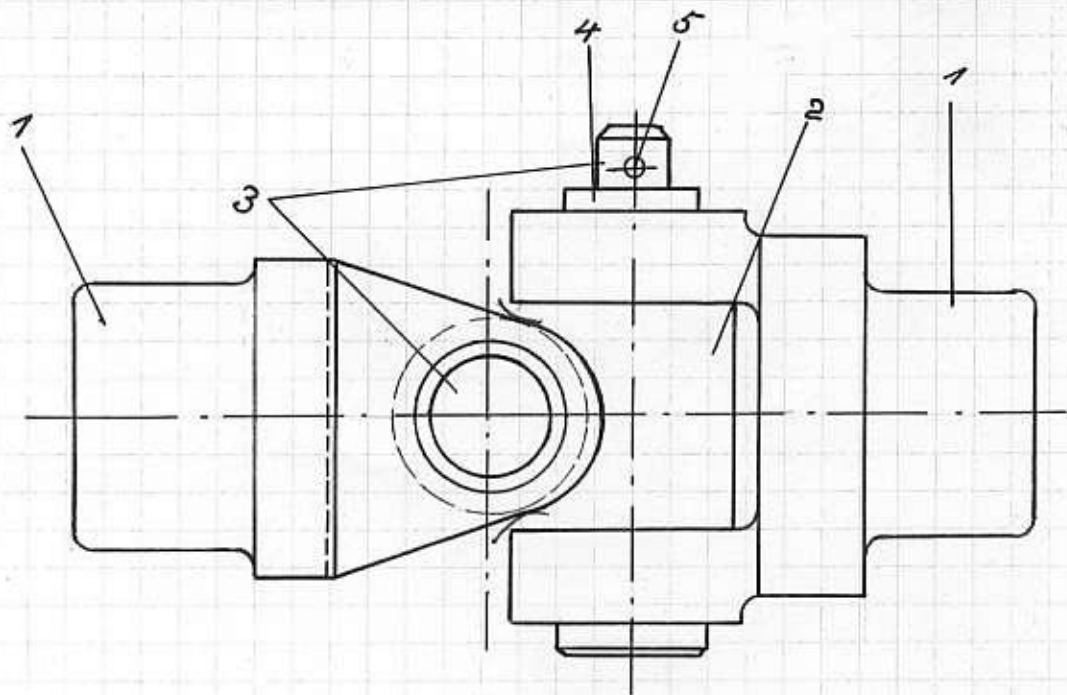
Maßstab	Gezeichnet	16.6.61	Berufsschule Nürnberg
	Geprüft		
Werkstoff	Verbindung zweier Schienen		Pfm II C Zeichn. Nr. 212



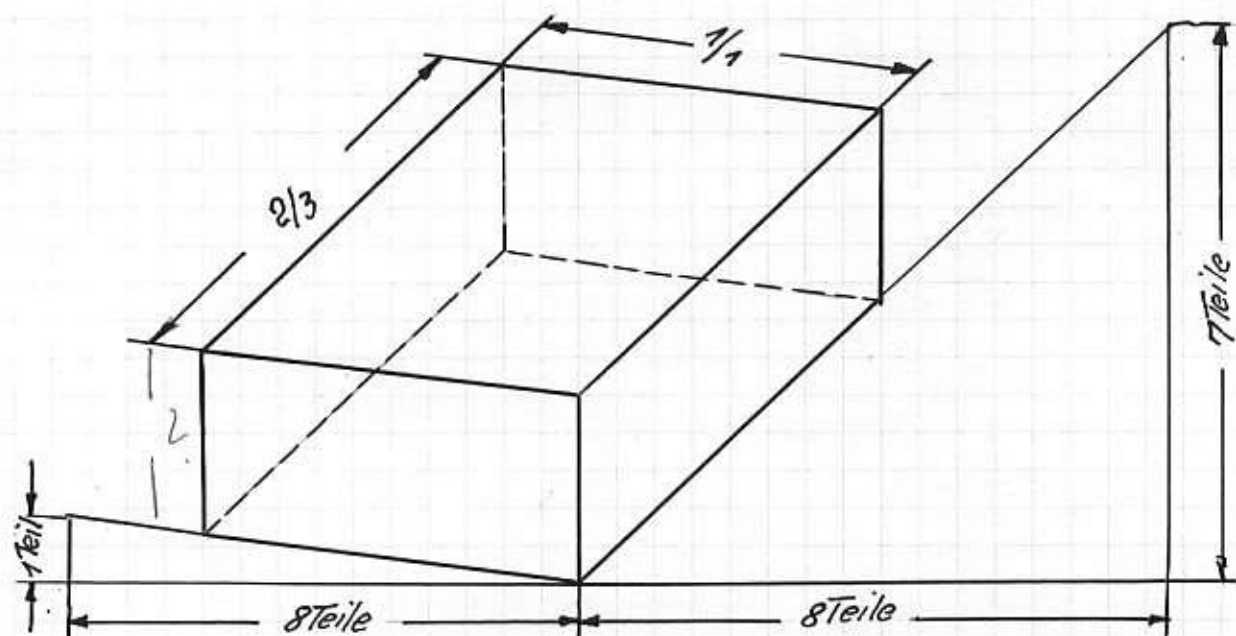
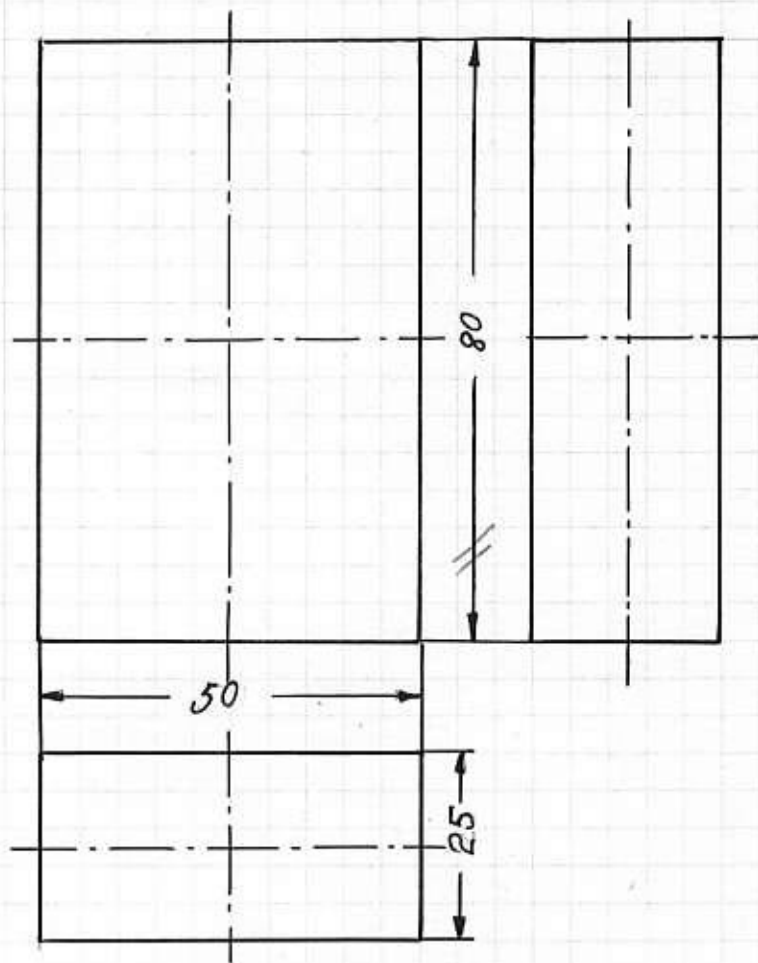
Maßstab	Gezeichnet	16.6.61	Berufsschule Nürnberg
	Geprüft		
Werkstoff	Kabelschelle		Zeichn. Nr. 8-13 Pfm II c



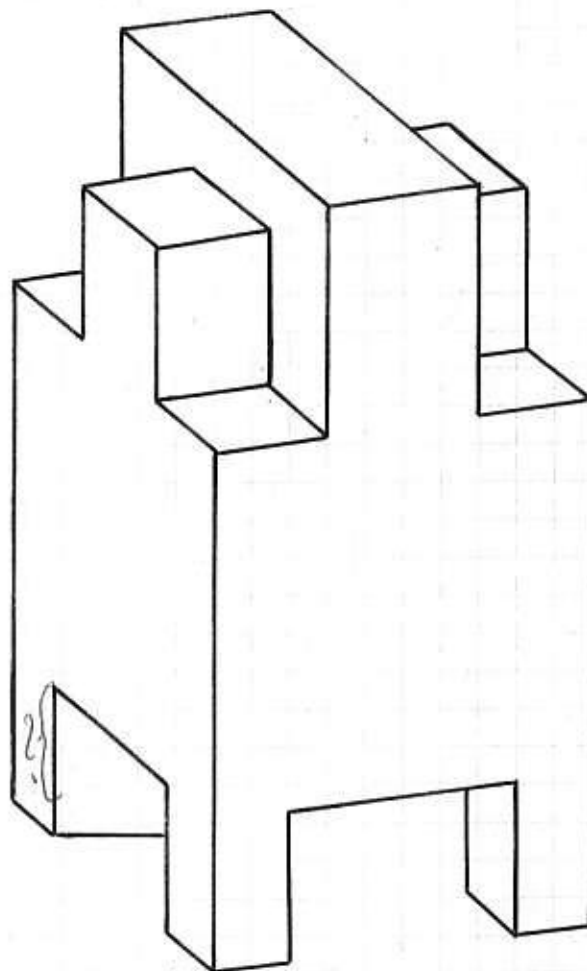
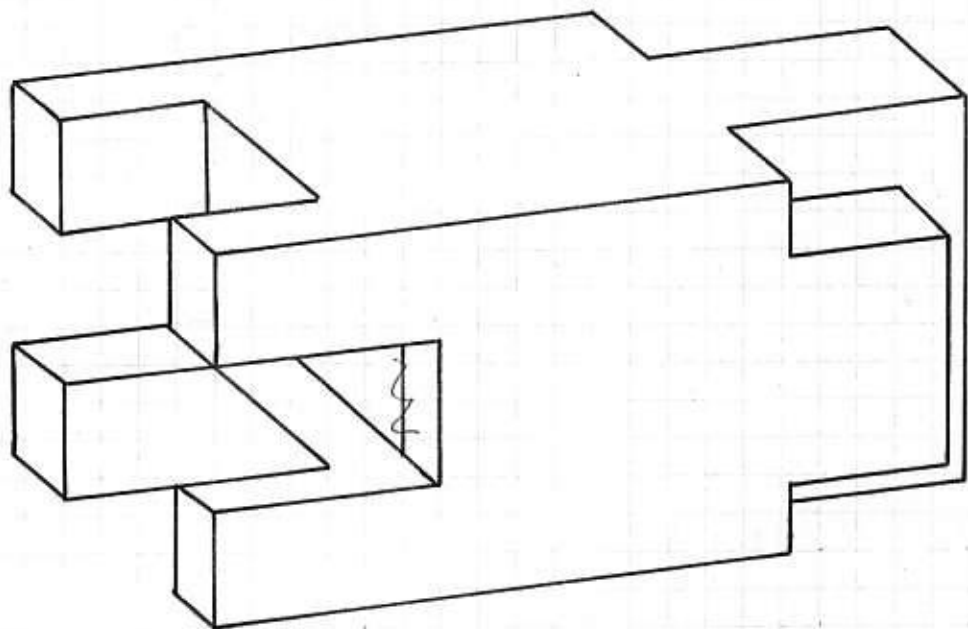
Werkstoff	Gezeichnet	23.6.61	Berufsschule Nürnberg
	Geprüft		
Maßstab	Induktor-Anker		Pfm II c Zeichn. Nr. 214



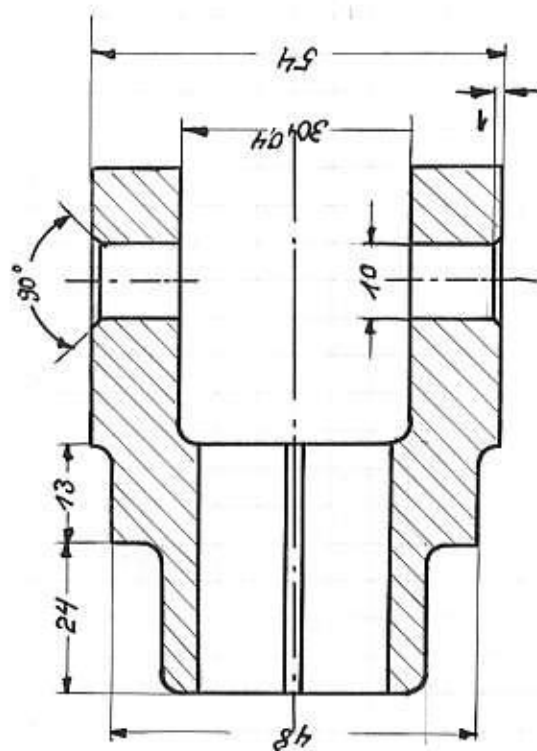
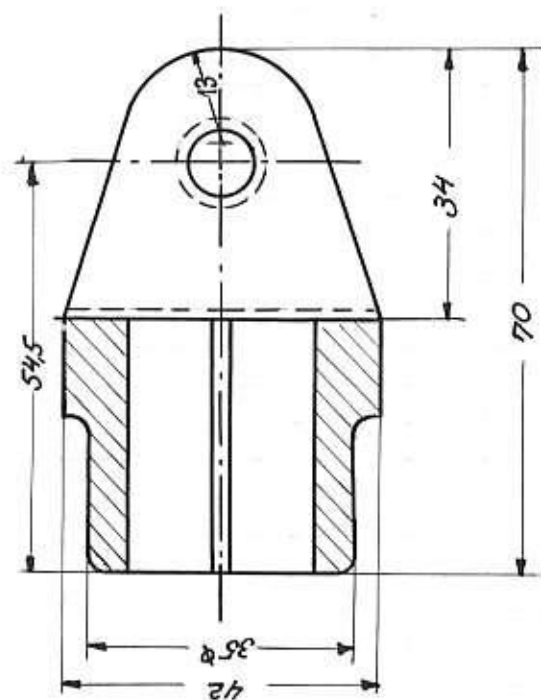
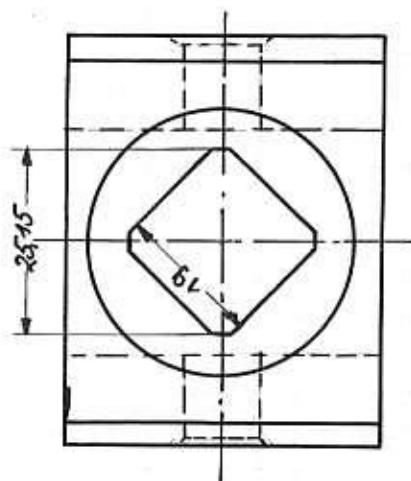
5	2	Splint 3x15	DIN 94	St 00
4	2	Scheibe 10,5	DIN 433	St 00
3	2	Bolzen 10x11x65x58	DIN 1436	St 00
2	1	Zwischenstück 2-10	DIN 37361	St 00
1	2	Gelenkstück 1-19	DIN 37361	St 00
Lfd. Nr.	Stückzahl	Benennung, Abmessungen	Normblatt Nr.	Werkstoff
Werkstoff		Gezeichnet 22.10.64	Berufsschule I Nürnberg	
St 00		Gezeichnet 1.12.64		
Maßstab		Gelenk 19 DIN 75°		Kurs Pm III C
M 1:1		1		Zeichn. Nr. 304



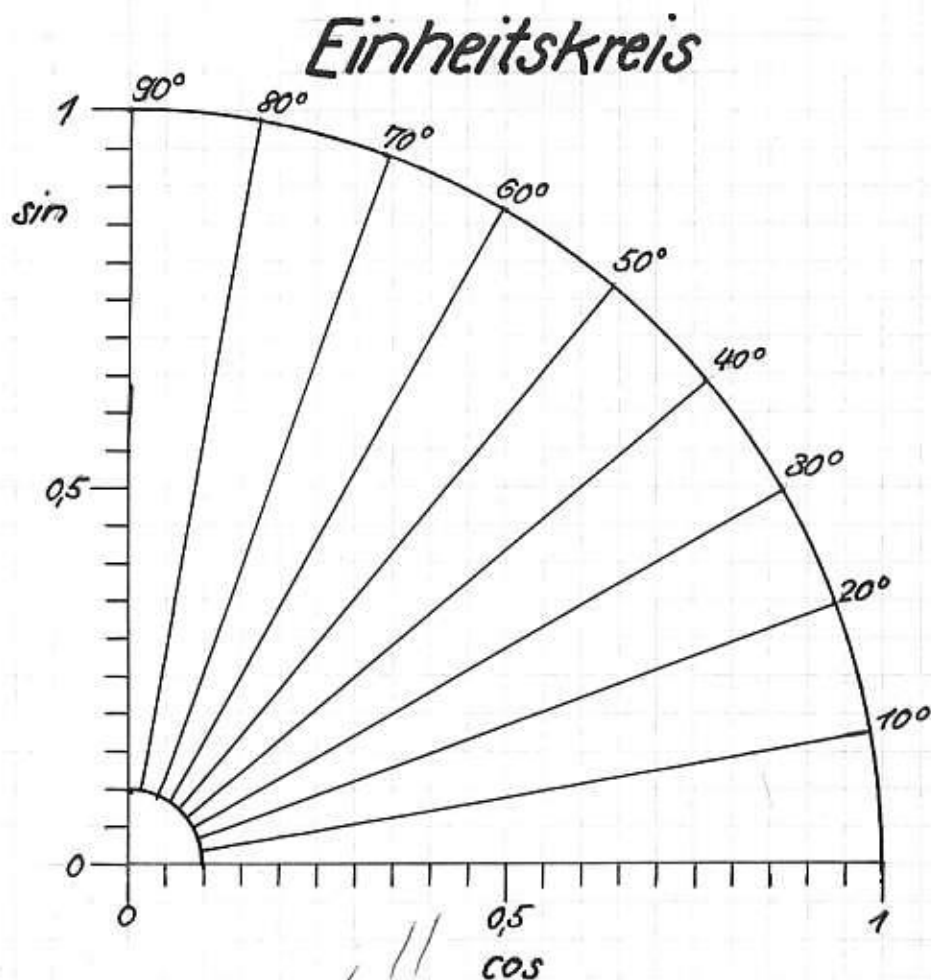
Werkstoff	Gezeichnet	10.2.61	Berufsschule Nürnberg
	Geprüft	1.12.	
Maßstab	ISOMETRISCHE DARSTELLUNG		Pfm Jc 305 Zeichn. Nr. 209



Werkstoff	Gezeichnet	13.11.61	Berufsschule Nürnberg
	Geprüft	1.12.	
Maßstab	Werkstück mit Stegu. Nuten 75°		Pfm III c Zeichn. Nr. 306

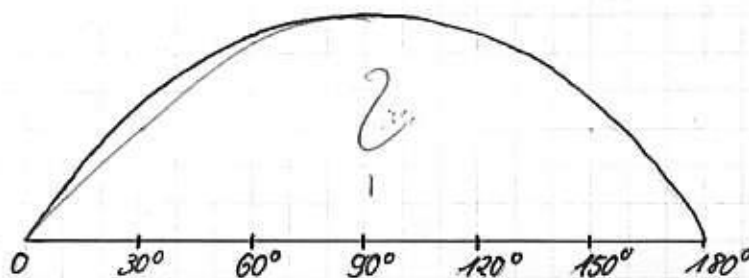


Werkstoff	Gezeichnet	2.10.61	Berufsschule Nürnberg
	Geprüft	<i>ch</i>	
Maßstab	Gelenk 75°!		Plm III c Zeichn. Nr. 301

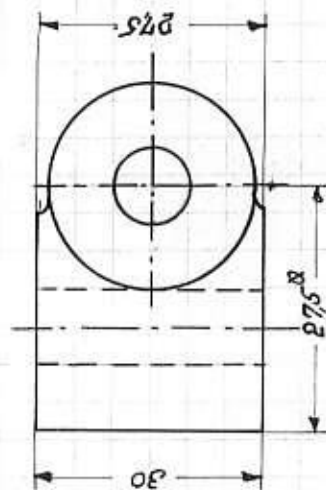
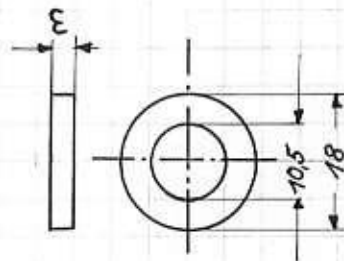
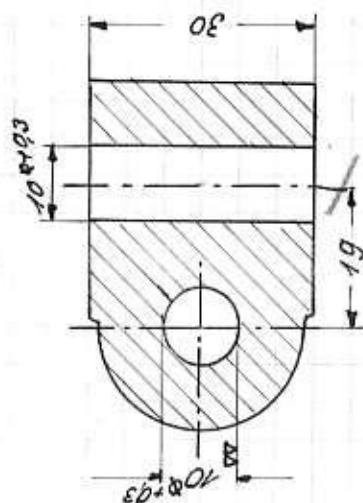
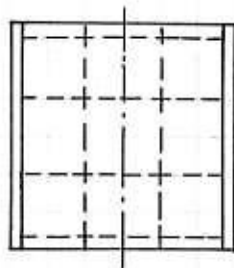
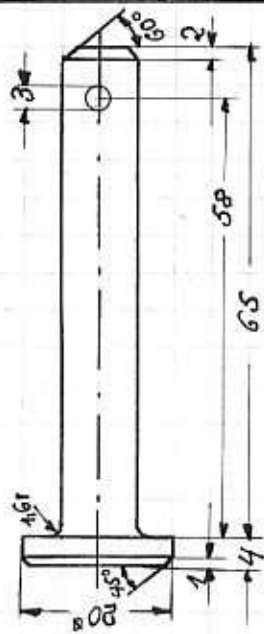


Die Darstellung des Einheitskreises enthält die $\sin$ -u. $\cos$ Werte für beliebige Werte

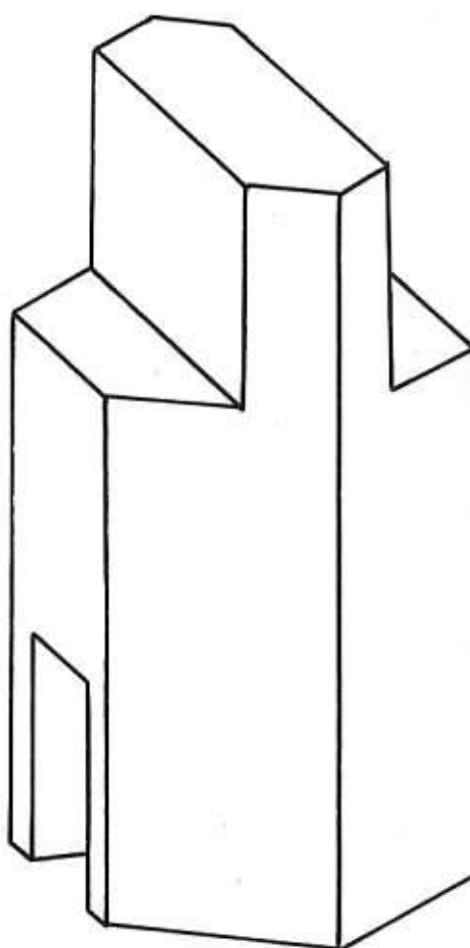
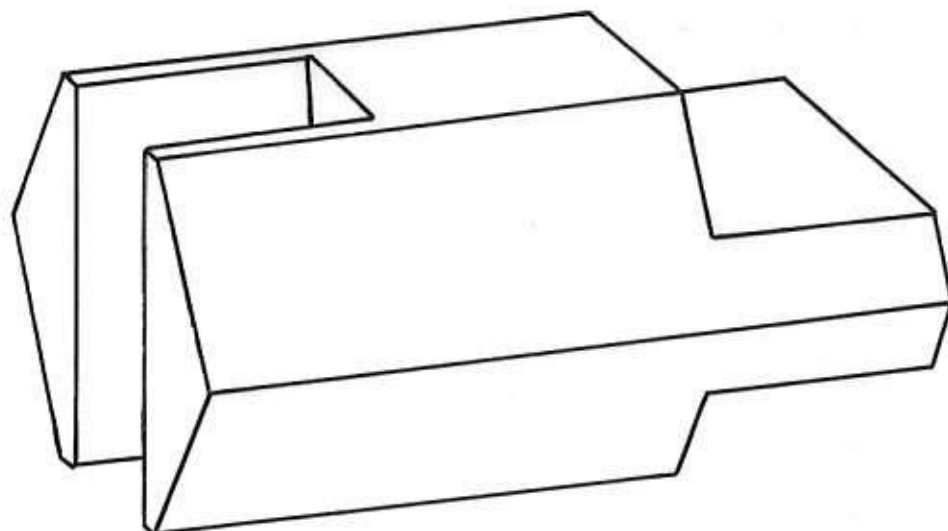
Winkel	0	10	20	30	40	50	60	70	80	90
$\sin$:	0	0,173	0,342	0,5	0,624	0,766	0,866	0,939	0,984	1
$\cos$:	1	0,984	0,939	0,866	0,766	0,643	0,5	0,342	0,173	0



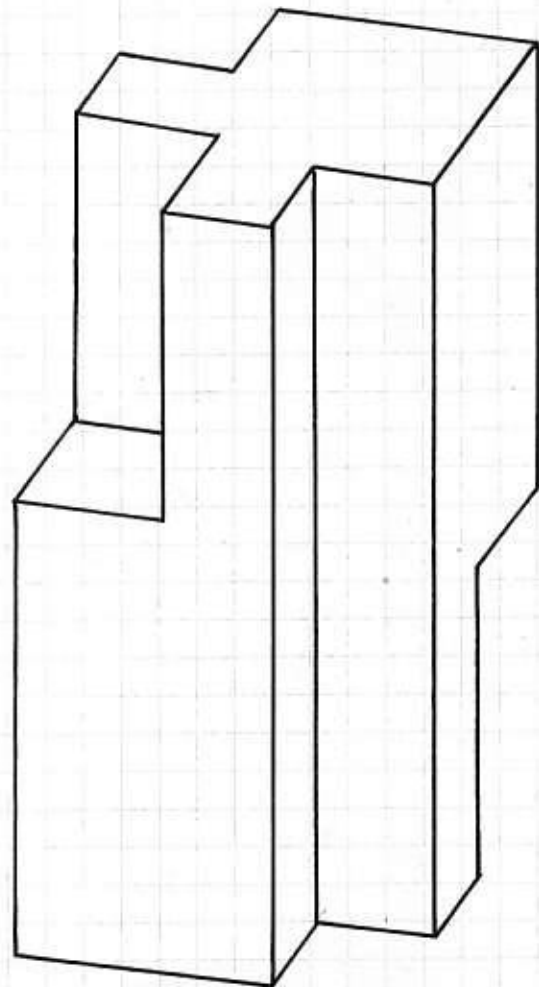
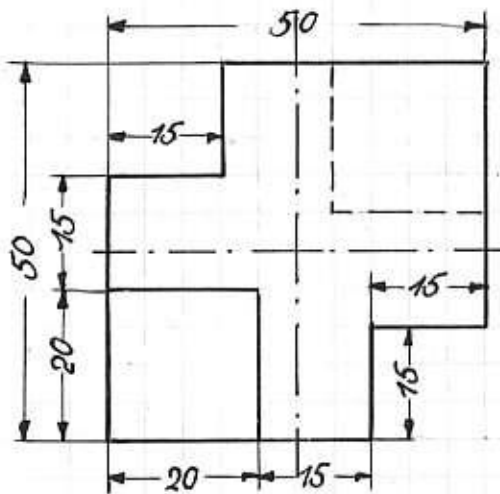
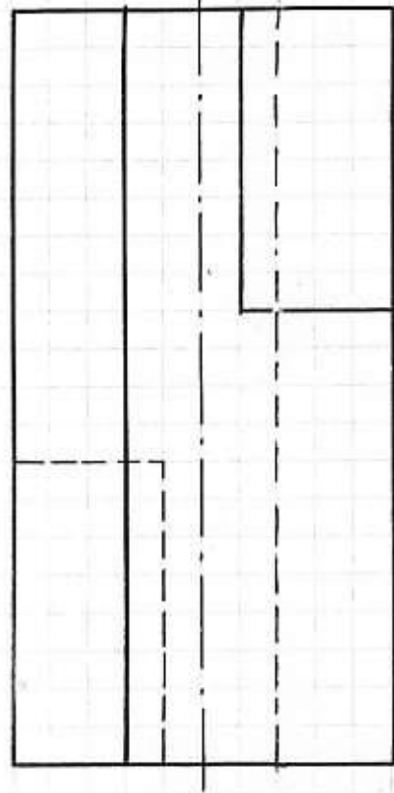
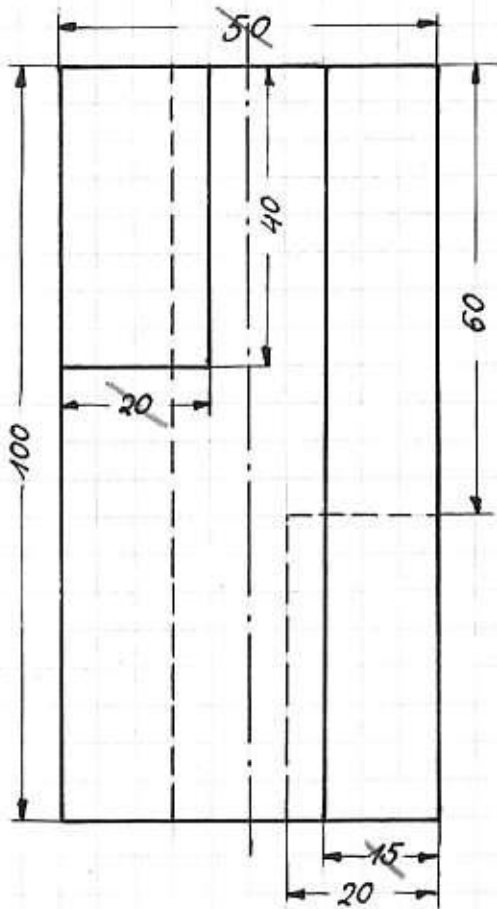
Werkstoff	Gezeichnet	25.9.61	Berufsschule I Nürnberg
	Geprüft		
Maßstab	Einheitskreis		Plm III c Zeichn. Nr. 302



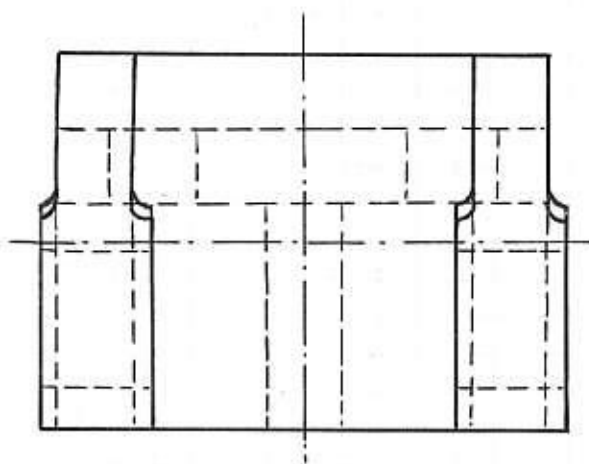
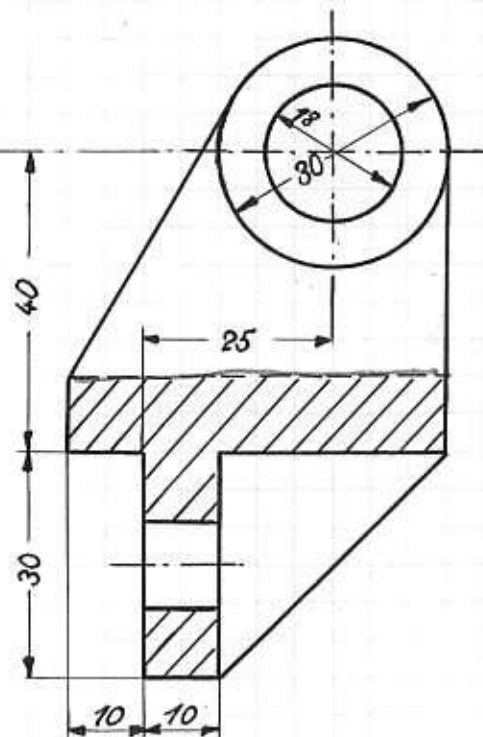
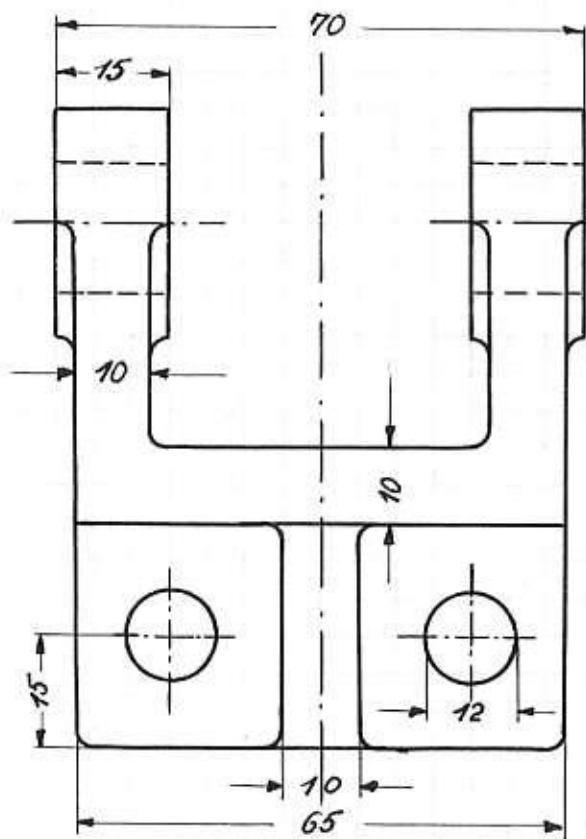
Werkstoff	Gezeichnet	9.10.61	Berufsschule I Nürnberg
	Geprüft		
Maßstab	Gelenk 75°		Kurs: Pfm III c Zeichn. Nr. 303



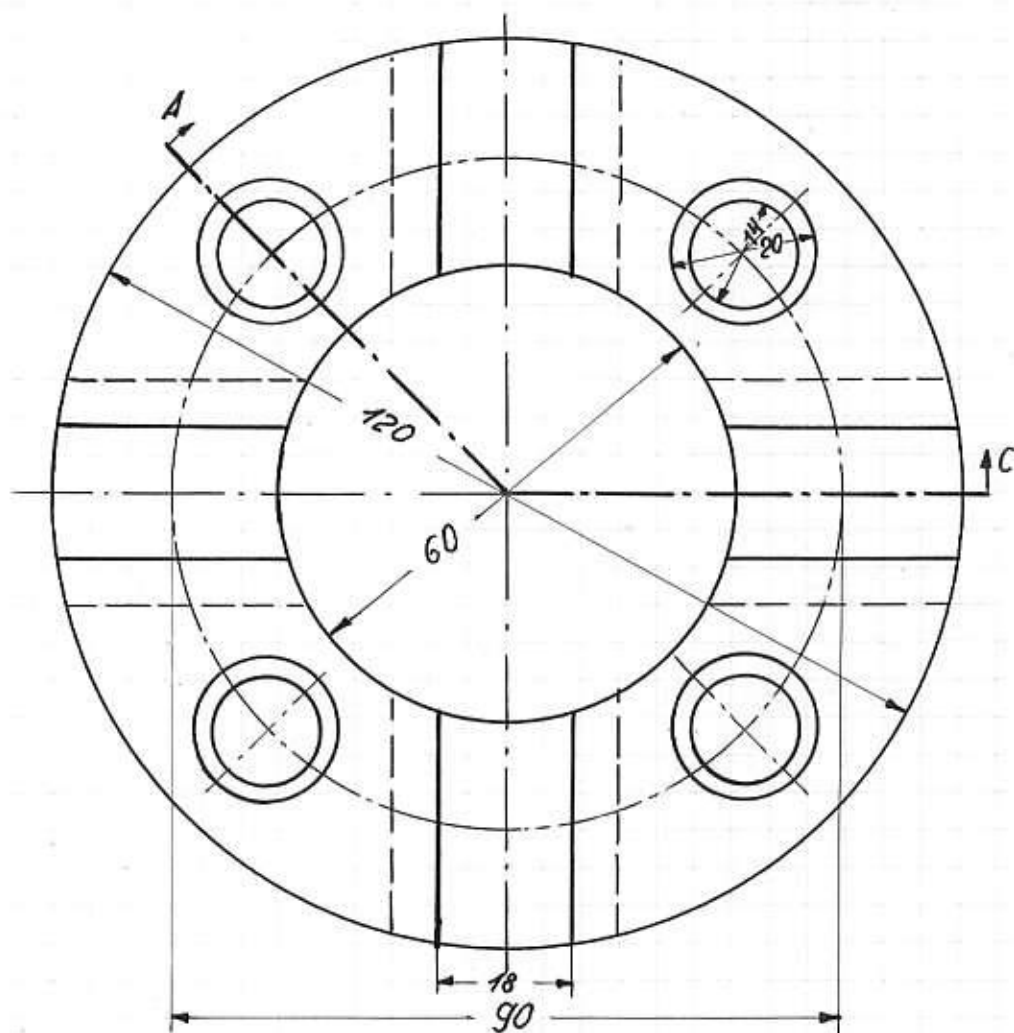
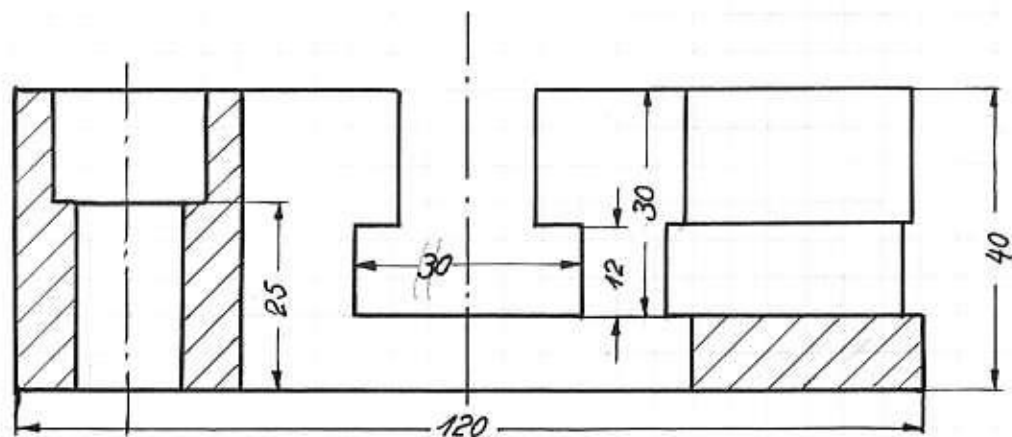
WERKSTOFF:	GEZNT.	27.11.61	BERUFSCHULE I NÜRNBERG
	GEPRFT.	4.12.61	
MASSTAB:	<u>ISOMETRISCHE DARSTELLUNG</u>		KURS PFM III C ZEICHNUNG : 307



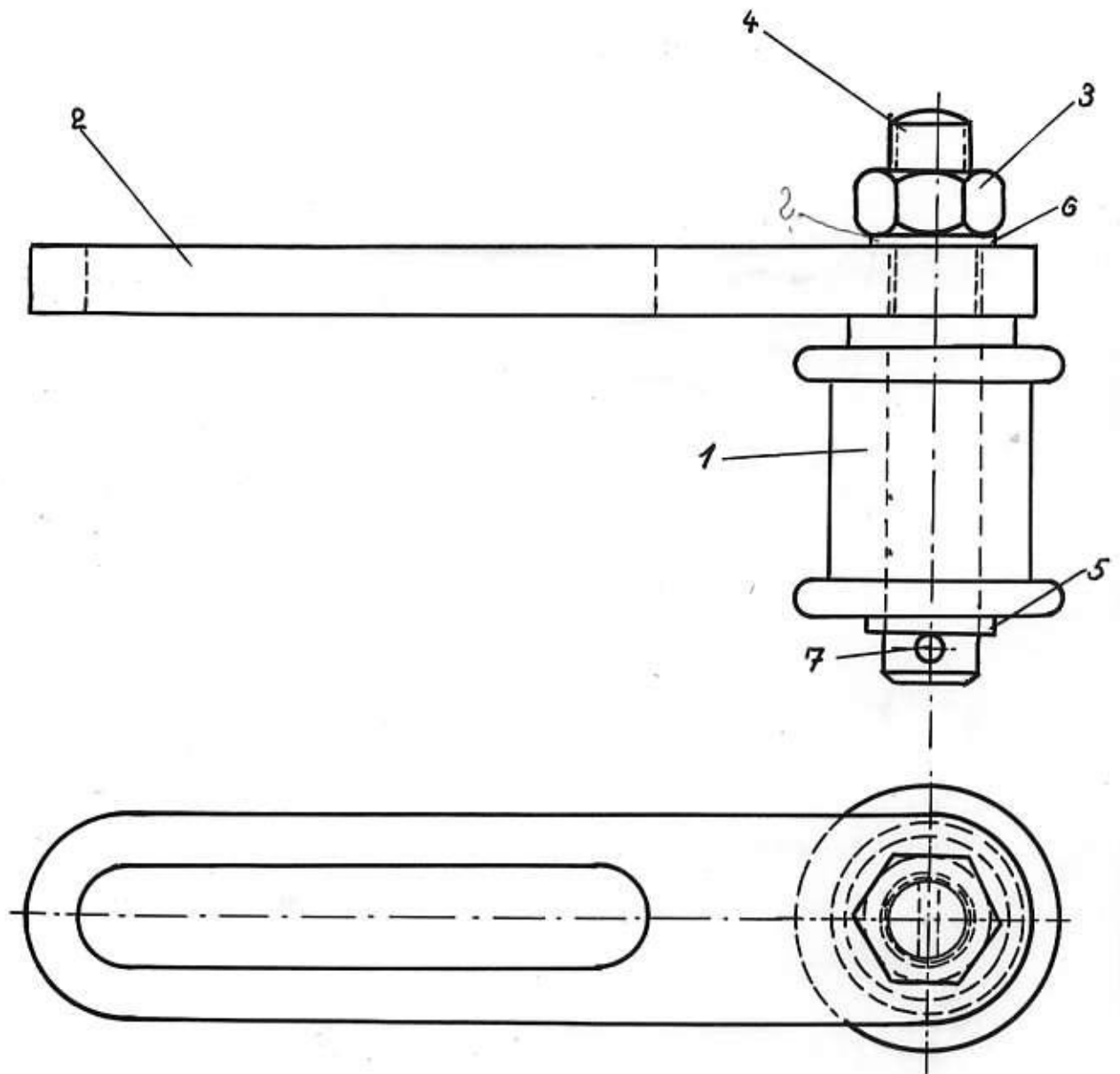
Werkstoff	Gezeichnet	12.12.61	Berufsschule I Nürnberg
	Geprüft	12.3.01	
Maßstab	Werkstück mit Längsnuten		Pfm IIIc Zeichn. Nr. 308



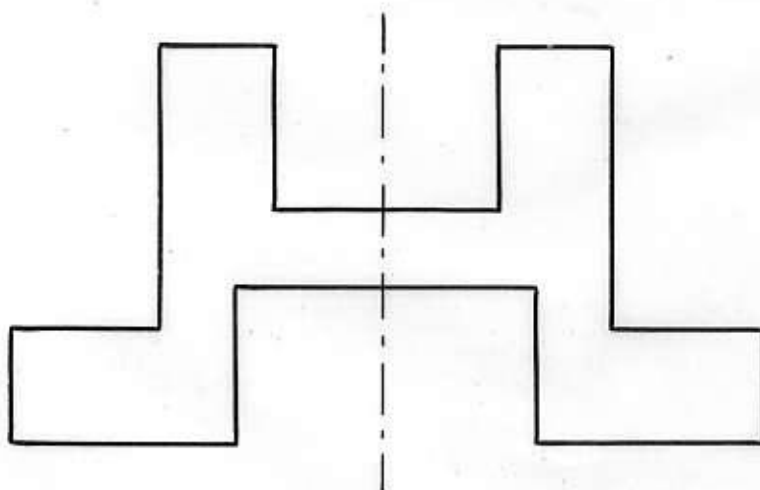
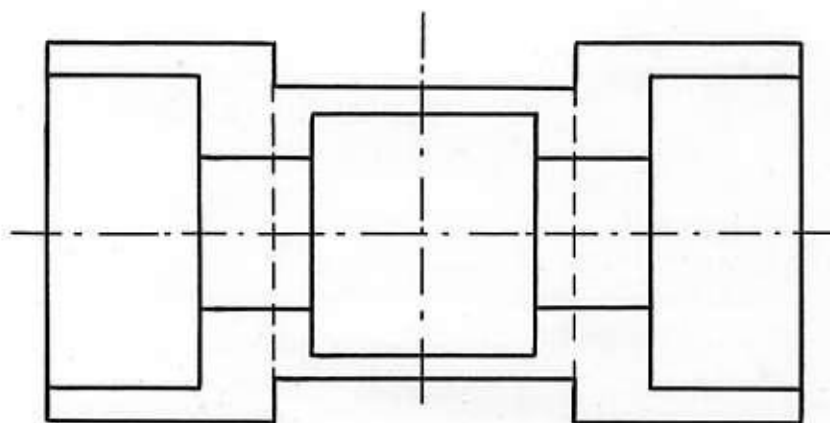
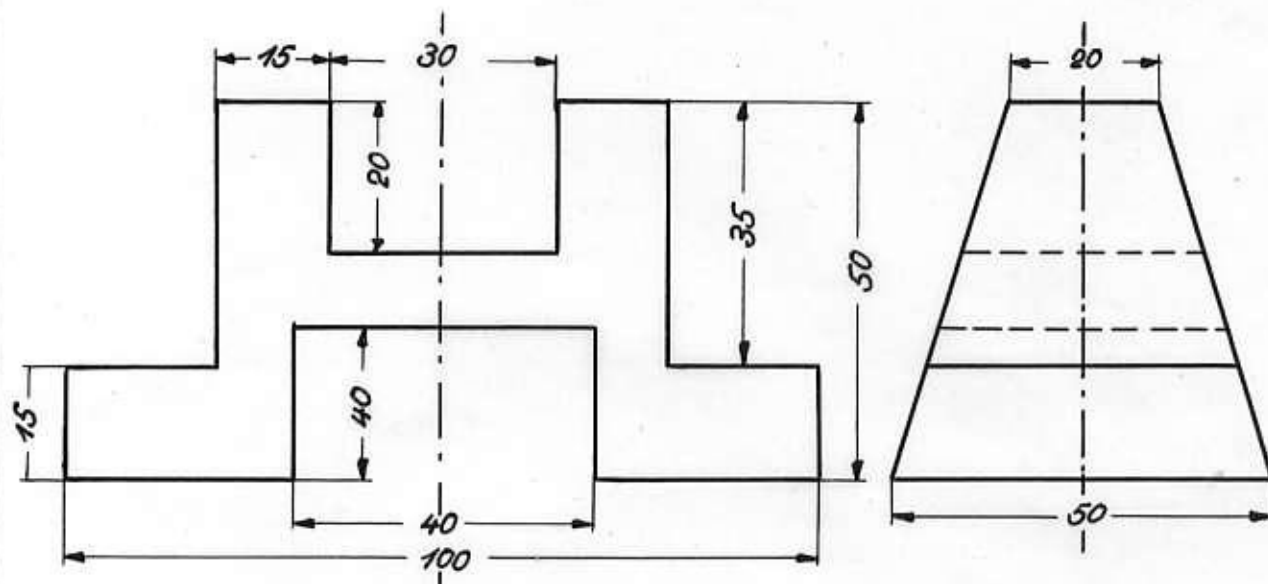
Werkstoff	Gezeichnet	22.1.67	Berufsschule Nürnberg
	Geprüft	19.3.67	
Maßstab	Lagerblock		Kurs Pfm III c Zeichn. Nr. 309



Werkstoff	Gezeichnet	5. 2. 62	Berufsschule I Nürnberg
	Geprüft	12. 3. 02	
Maßstab	Aufspannplatte		Kurs Pfm III c Zeichn. Nr. 310

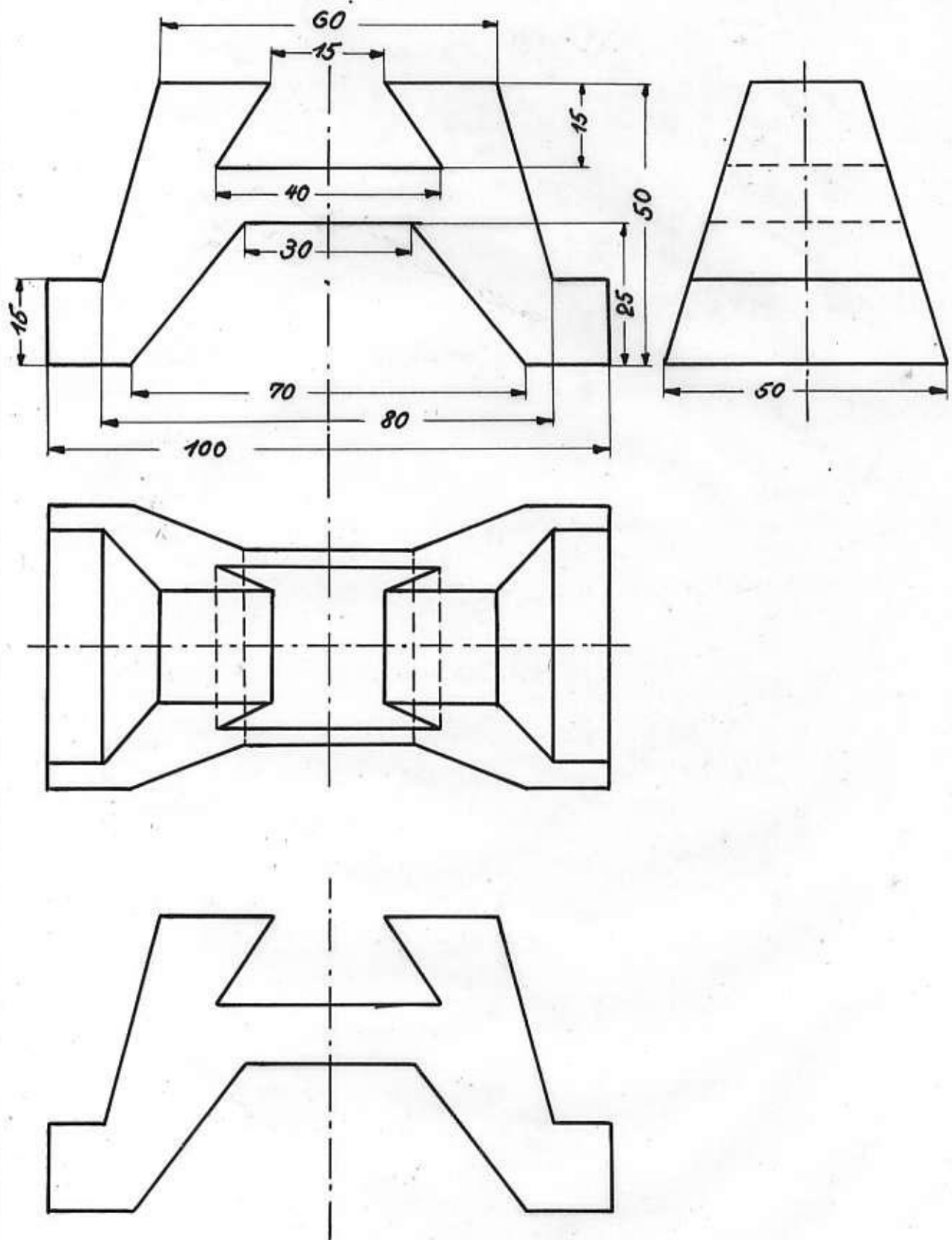


1	Splint 4x18	7	DIN 94	St 40.11			
1	Blanke Scheibe 15	6	DIN 125	St 00.21			
1	Blanke Scheibe 125	5	DIN 125	St 00.21			
1	Blanke Sechskantmutter M12	4	DIN 934	St 37.12			
1	Bolzen	3	313	St 50.11	28 ^ø x 90		
1	Spannschiene □ 30/10	2	313	St 37.12	150/g		
1	Spannrolle	1	313	St 37.12	42 ^ø x45		
Stck	Benennung		Teil	Zg. Nr.	Werkstoff	Rohmaße	Bemerkung
Werkstoff	Gezeichnet	9.4.62	Berufsschule I Nbg				
	Geprüft	28.5.01					
Maßstab	Riemenspanner					Pfsm III c Zeichn. Nr. 313	



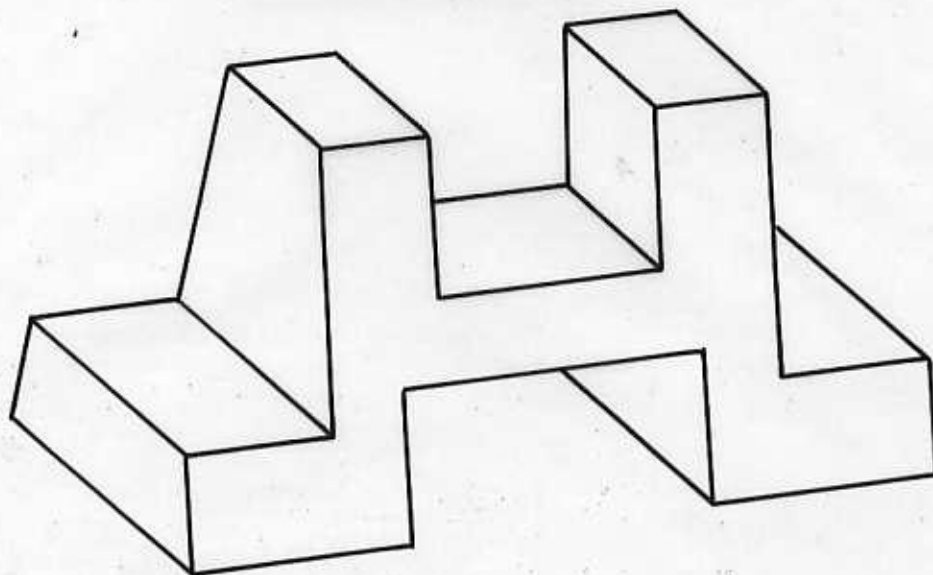
25.8.

Werkstoff	Gezeichnet	21.5.62	Berufsschule I Nbg.
	Geprüft		
Maßstab	Ausgeschnittene Trapezsäule		Kurs Pfm IIIc Zeichn. Nr. 314

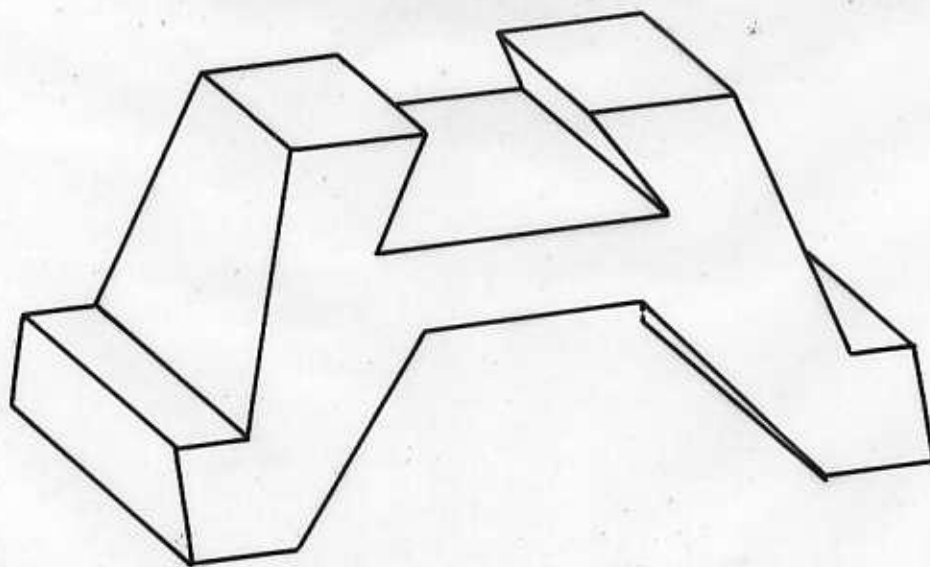


Werkstoff	Gezeichnet	18.6.62	Berufsschule I Nbg.
	Geprüft	18.6.62	
Maßstab	Teil einer Vorrichtung		Pfm III c Zeichn. Nr. 315

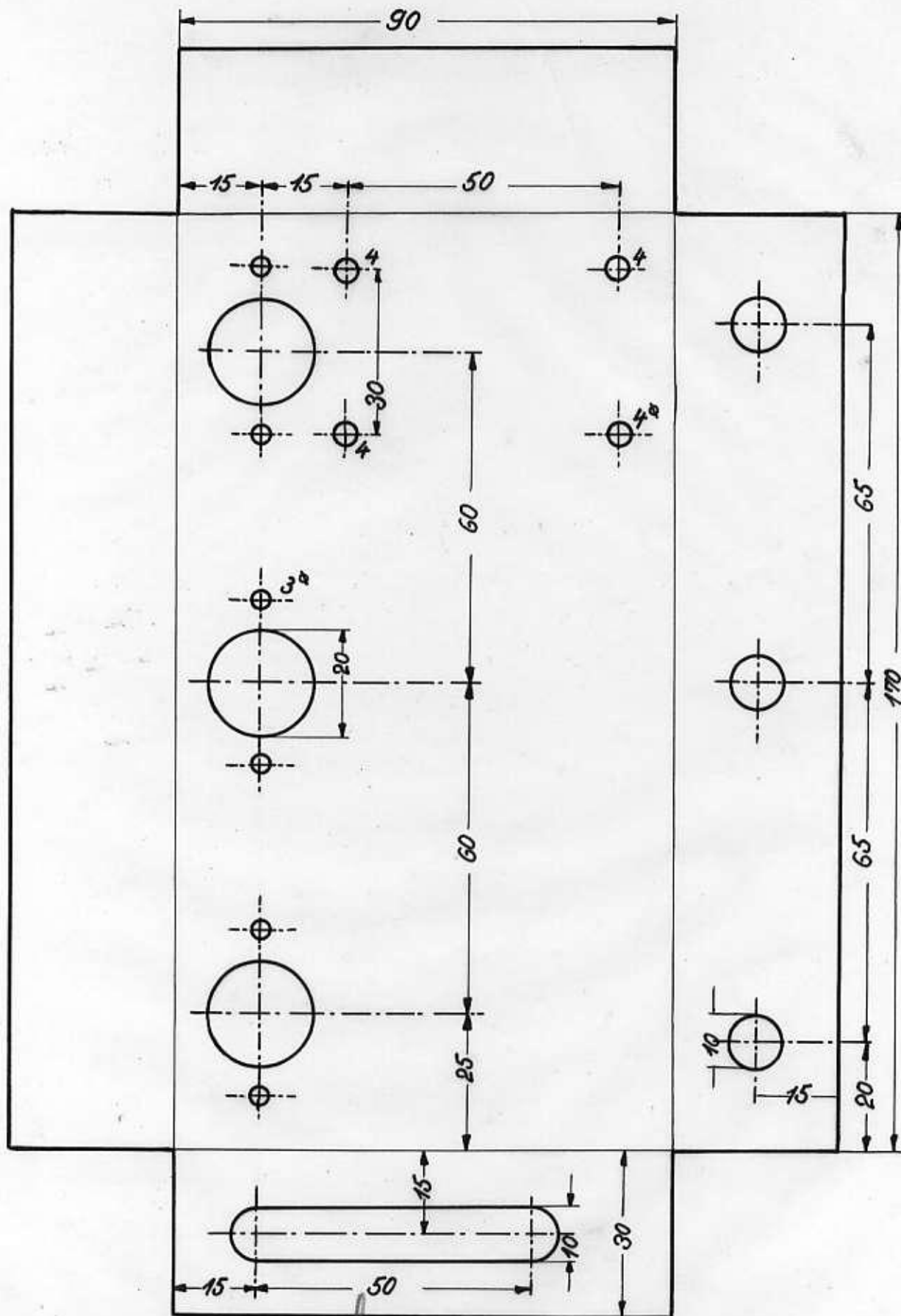
Isometr. Darstellung v. 315



Isometrische Darstellung v. 314



Werkstoff	Gezeichnet	2.7.62	Berufsschule I Nbg
	Geprüft		
Maßstab	Isometrische Darstellungen		Pfm III c Zeichn. Nr. 316



Werkstoff	Gezeichnet	19.2.62	Berufsschule I Nürnberg
	Geprüft	12.3.02	
Maßstab	Chassie eines Einkreises		Kurs Pfm III C Zeichn. Nr. 311