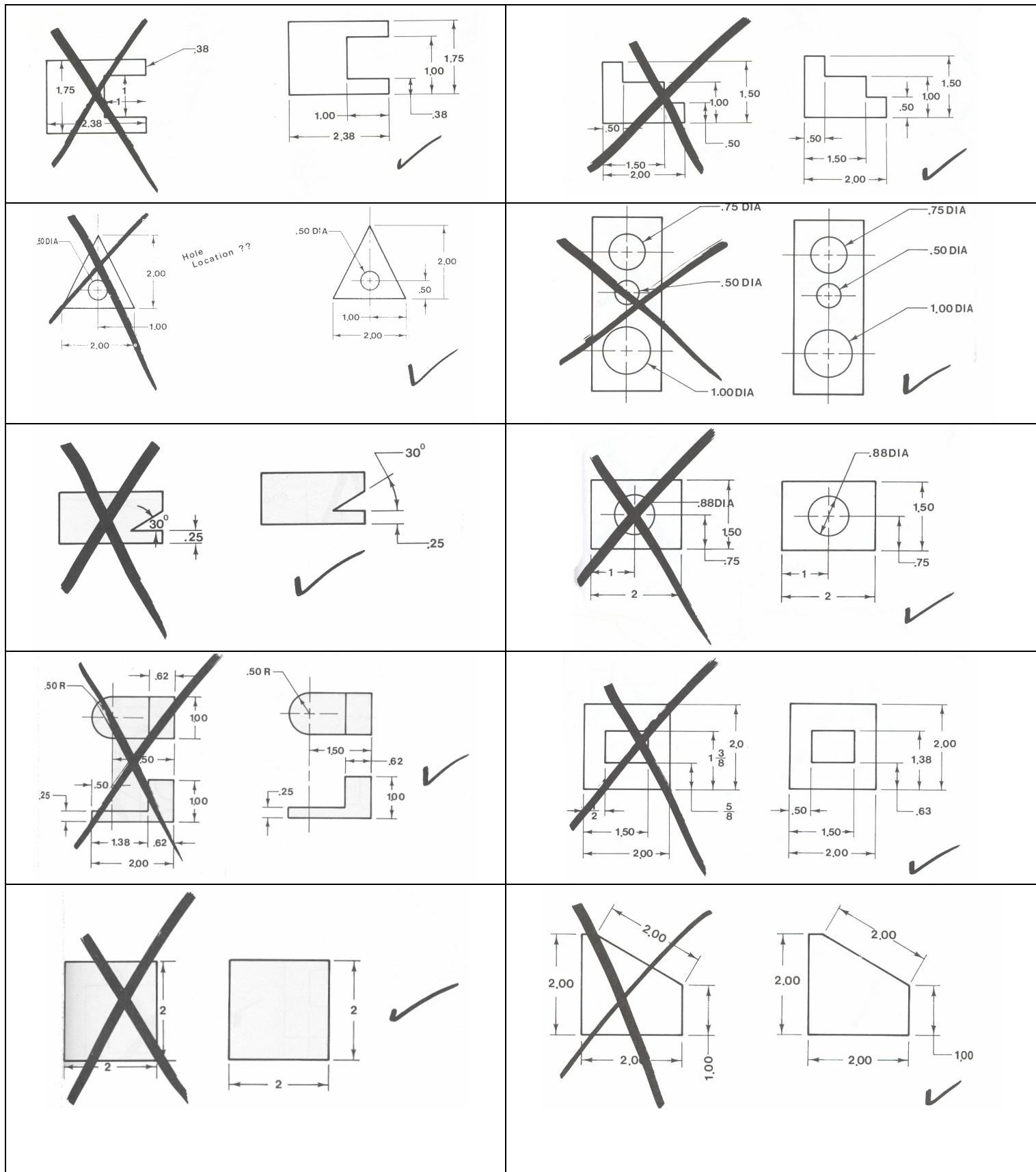
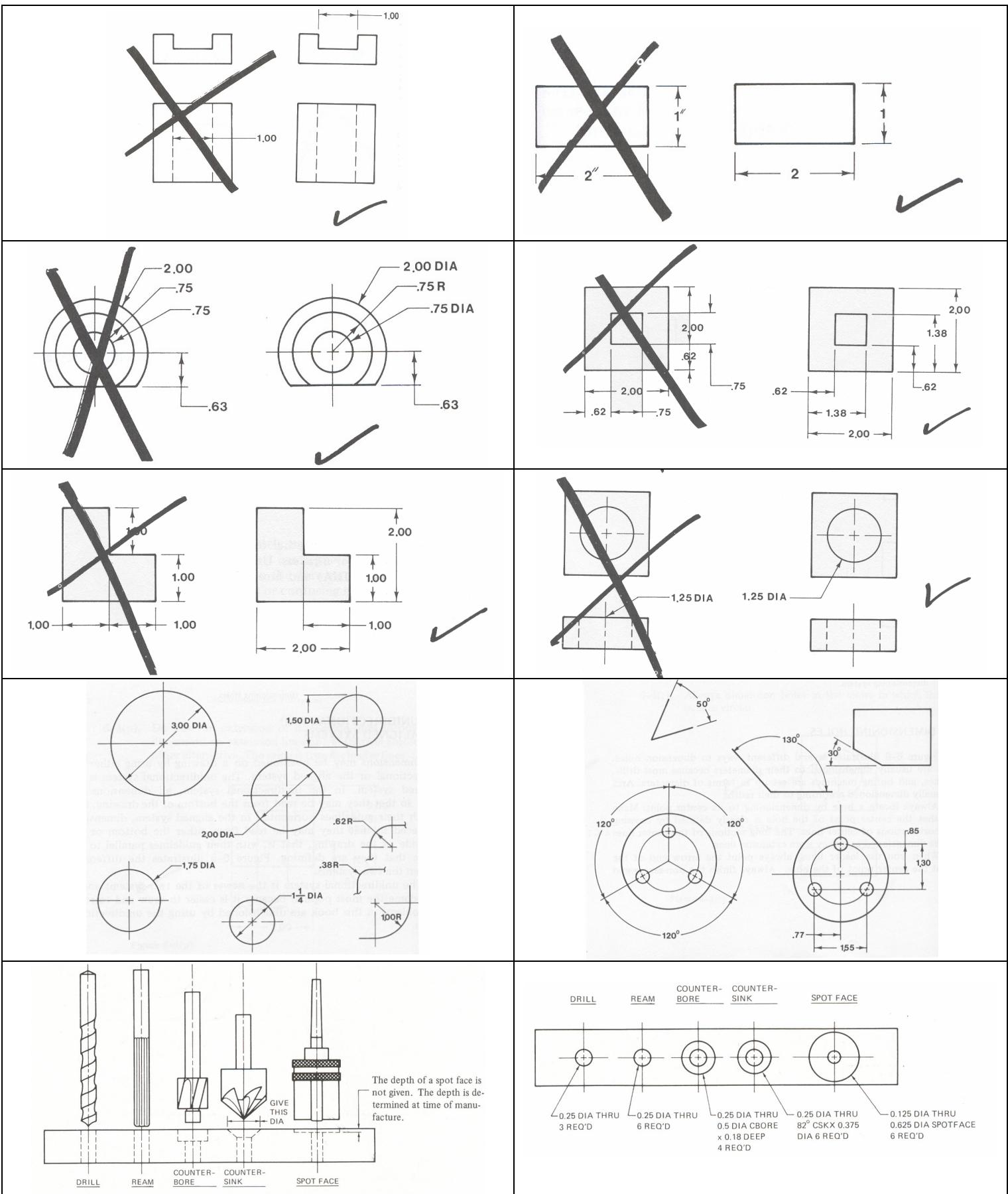
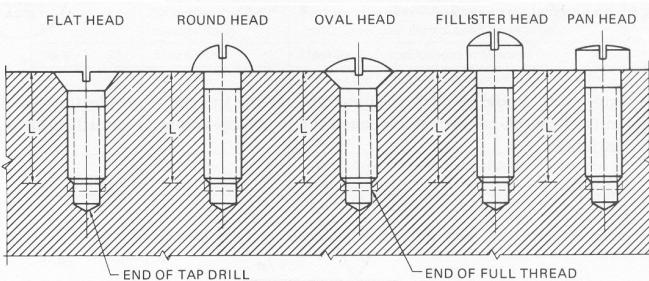


GRAPHIC RULES FOR DRAWING DIMENSIONS AND FEATURES

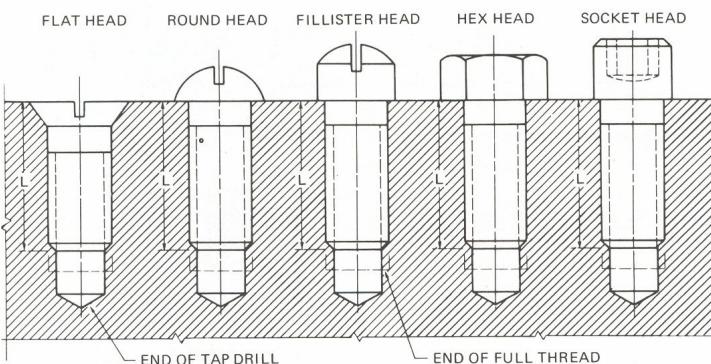




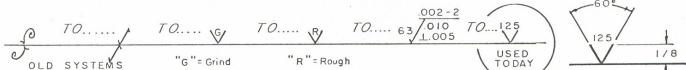
SCREW MACHINE (from 0 to 12 size)



CAP SCREWS (from 1/4 to 1 1/4 size)

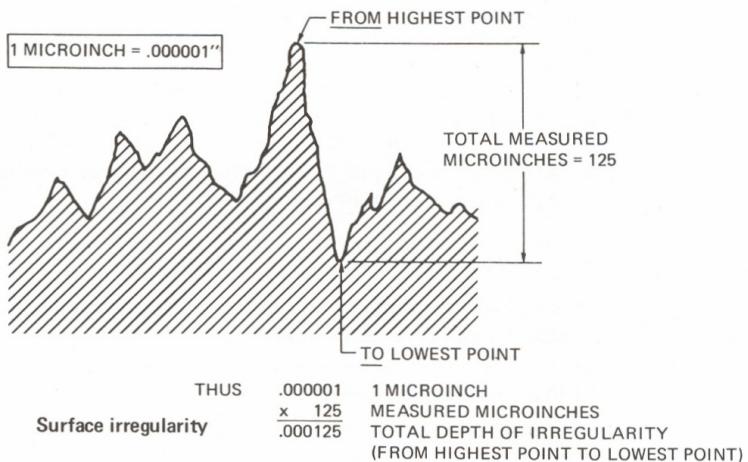


FINISH MARKS

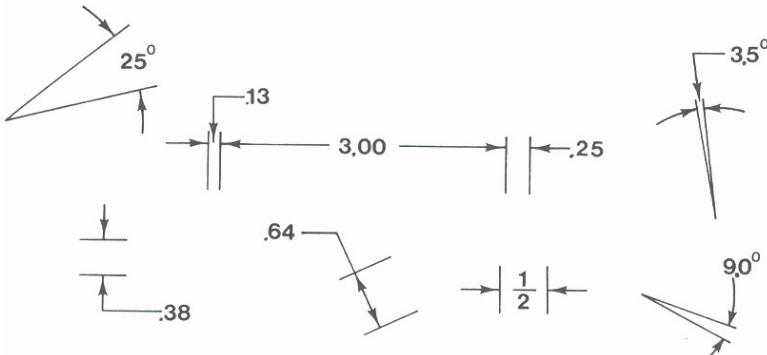
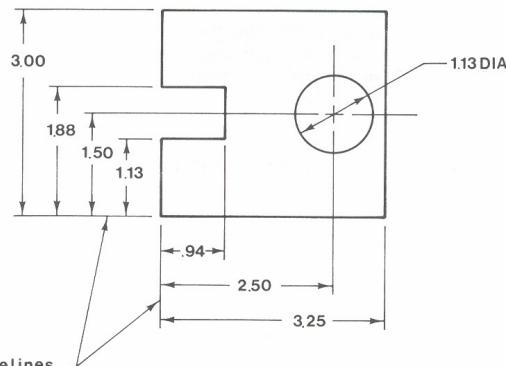


ROUGHNESS μm. μin.	KIND OF SURFACE	USAGE
12.5 500	Rough	Used where vibration or stress concentration are not critical and close tolerances are not required.
6.3 250	Medium	For general use where stress requirements and appearance are of minimal importance.
3.2 125	Average smooth	For mating surfaces of parts held together by bolts and rivets with no motion between them.
1.6 63	Smoother than average finish	For close fits or stressed parts except rotating shafts, axles, and parts subject to vibrations.
0.8 32	Fine finish	Used for such applications as bearings.
0.4 16	Very fine finish	Used where smoothness is of primary importance such as high-speed shaft bearings.
0.2 8	Extremely fine finish	Use for such parts as surfaces of cylinders (engines).
0.1 4	Super fine finish	Used on areas where surfaces slide and lubrication is not dependable.

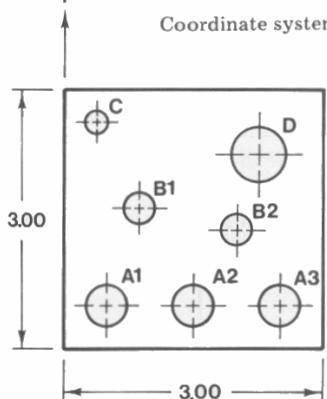
A microinch = .000001 of an inch and simply means:



BASE LINE SYSTEM

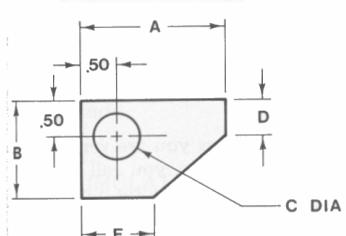


Coordinate system.

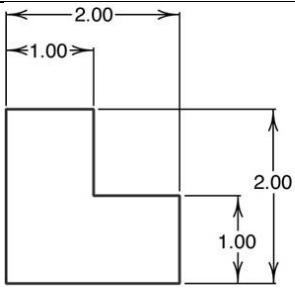
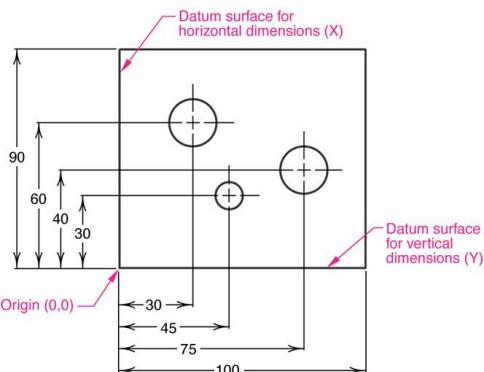


HOLE	X	Y	DIA
A1	0.50	0.50	.470
A2	1.50	0.50	.470
A3	2.50	0.50	.470
B1	0.88	1.62	.375
B2	2.00	1.38	.375
C	0.38	2.62	.250
D	2.25	2.25	.625

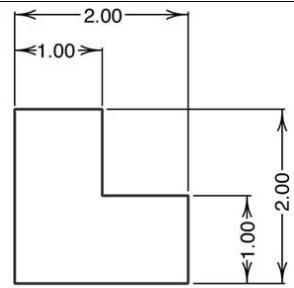
Tabular dimensions.



PART NO	A	B	C	D	E
1001	2.00	1.38	.68	.50	1.00
1002	2.00	1.38	.50	.68	1.13
1003	2.25	1.50	.68	.75	1.13
1004	2.25	1.50	.50	.75	1.25
1005	2.38	1.75	.68	.75	1.25



Unidirectional
Current standard



Aligned
Old standard

Counterbore or spotface symbol

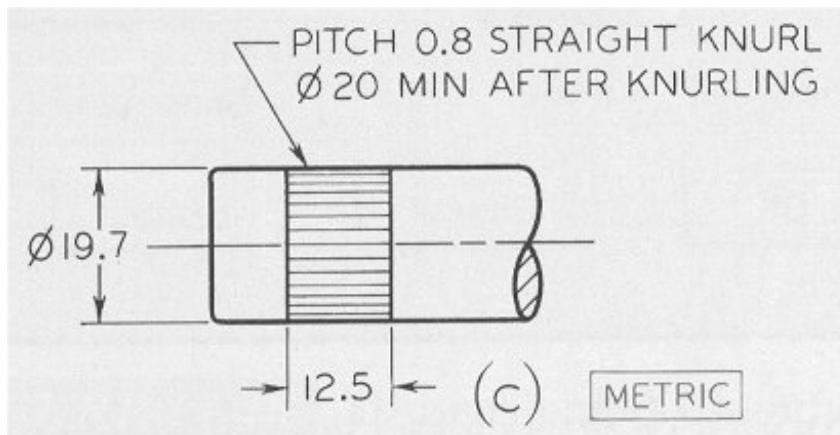
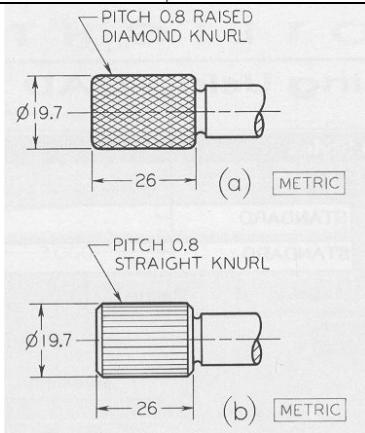
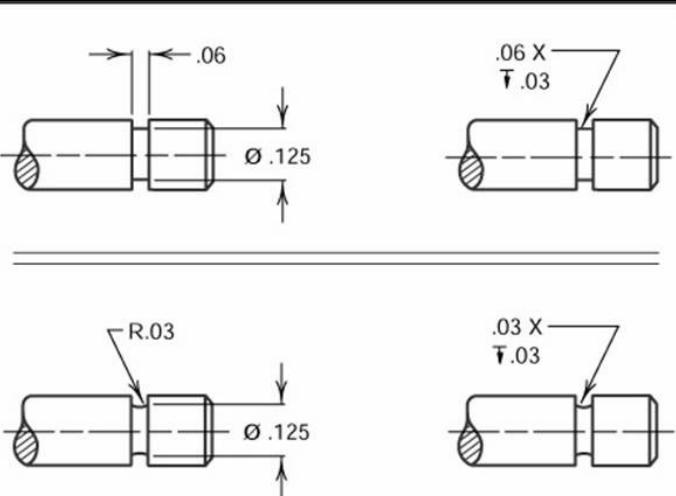
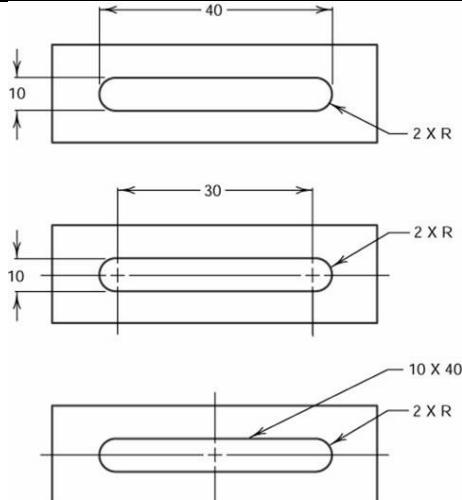
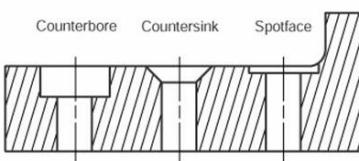
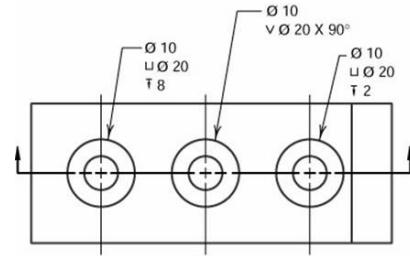
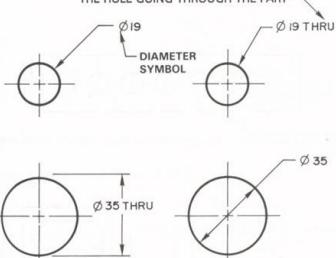
Countersink symbol

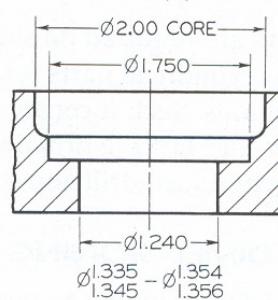
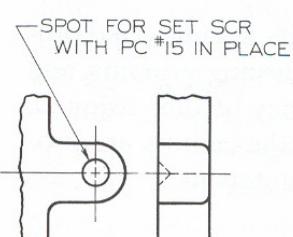
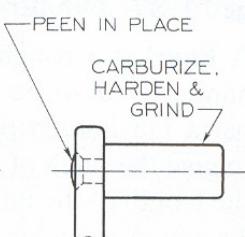
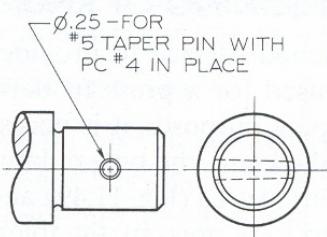
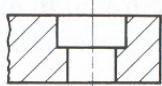
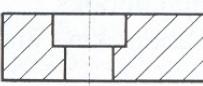
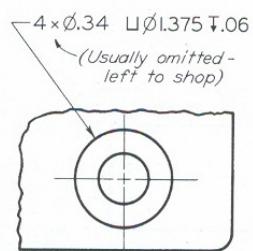
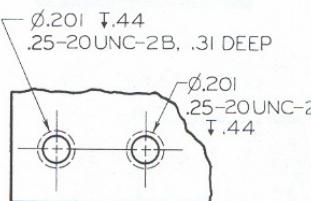
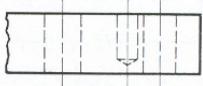
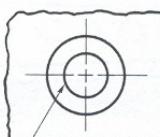
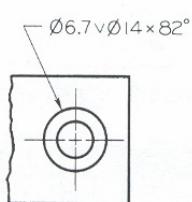
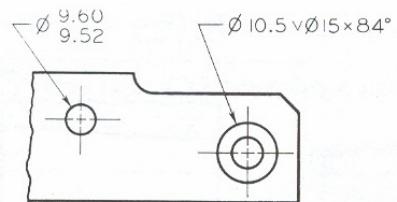
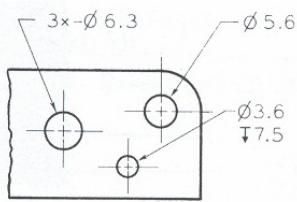
Diameter symbol

Square symbol

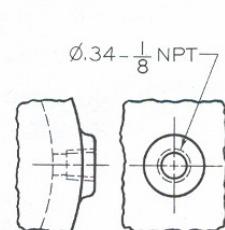
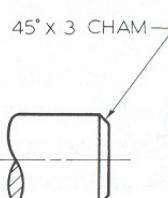
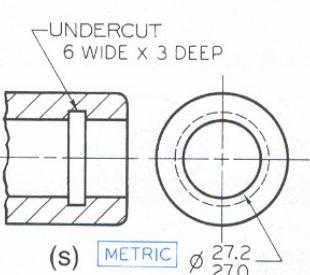
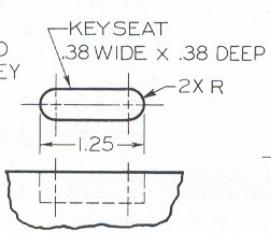
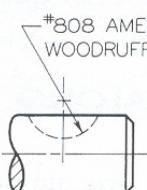
Depth symbol

THRU ISSUED AFTER THE DIMENSION
WHEN THE VIEWS DO NOT CLEARLY SHOW
THE HOLE GOING THROUGH THE PART





(n)



(u)

METRIC

(v)

(w)

(x)

(y)