



### GEOMETRIC PROPOSITIONS



The sum of the three angles in a triangle always equals 180°. Hence, if two angles are known, the third angle can usually be found.

$$A + B + C = 180^\circ \quad A = 180^\circ - (B + C) \quad B = 180^\circ - (A + C) \quad C = 180^\circ - (A + B)$$



If two lines intersect, then the opposite angles formed by the intersecting lines are equal.

$$\text{Angle A} = \text{Angle C}$$

$$\text{Angle B} = \text{Angle D}$$



If two elements (two parallel lines), then the corresponding angles formed by the intersecting line (transversal) lines are equal.

Lines are said to be parallel. Thus, all the angles designated A are equal, and all those designated B are equal.



In any figure having four sides, the sum of the interior angles equals 360 degrees.

$$A + B + C + D = 360^\circ$$

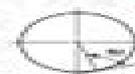


FOCUS



FOCUS LINE

### GEOMETRIC PROPOSITIONS



If one is tangent to a circle, then it is also all right angles with the radius from the center of the circle to the point of tangency. Thus, it is a right line through the point of tangency.



If two circles are tangent to each other, then the straight line that passes through the centers of the two circles of the two circles must also pass through the point of tangency.



If from a point outside a circle, tangents are drawn to a circle, the two tangents are equal and make equal angles with the chord joining the points of tangency.



All angles having their vertex at the periphery of a circle and subtended by the same chord are equal. Angles A, B, and C, all subtended by chord AD are equal.



FOCUS LINE

### FIELD OF VIEW (FOV) CHART - HOW MUCH YOU CAN SEE

	5.6"	7.6"	20"	30"
20x	2.90"	3.20"	4.00"	5.00"
30x	1.90"	1.80"	2.00"	3.00"
50x	0.70"	0.90"	1.00"	1.50"
100x	0.440"	0.572"	0.64"	0.90"
150x	0.29"	0.32"	0.40"	0.60"
200x	0.214"	0.266"	0.30"	0.40"
300x	0.14"	0.16"	0.20"	0.30"

100x Magnification - Using a machinist rule on the screen, 0.004" at the part becomes 0.002" on the screen.  
150x Magnification - Using a machinist rule on the screen, 0.007" at the part becomes 0.004" on the screen.



FOCUS

### AREAS & DIMENSIONS OF PLANE FIGURES



$$\text{Area} = A = a^2 = a \times a$$



$$\text{Area} = A = a \times b = (a^2)^{1/2} \times (b^2)^{1/2} = a \times b$$



$$\text{Area} = A = a \times h$$

$$a = A/h$$

$$h = A/a$$

Note: The distance is perpendicular right angles to base 'a'.



$$\text{Area} = A = \frac{1}{2} a \times h$$

$$a = 2A/h$$

$$h = 2A/a$$



$$\text{Area} = A = \frac{1}{2} a \times h = \frac{1}{2} a \times \sqrt{h^2 - \left(\frac{a}{2}\right)^2}$$



ADJUSTMENT



MEASURE



MANUFACTURING

### AREAS & DIMENSIONS OF PLANE FIGURES



$$\text{Area} = A = \frac{1}{2} a \times h = \frac{1}{2} a \times \sqrt{h^2 - \left(\frac{a}{2}\right)^2}$$



$$\text{Area} = A = \frac{1}{2} h \times (a + b)$$



$$\text{Area} = A = \pi r^2 = 3.1416 \times r^2 = 3.1416 \times r \times r$$



$$\text{Area} = A = \pi r^2 = 0.7854 \times D^2 = 0.7854 \times D \times D$$

$$\text{Circumference } C = 2\pi r = 6.2832 \times r = 6.2832 \times \frac{D}{2}$$

$$r = C/2\pi = 6.2832 \times r = 0.15915 \times C$$

$$A = r^2 \times \pi = 0.15915 \times C \times 0.15915 \times C \times 3.1416 = 0.02454 \times C^2$$



$$\text{Area} = A = \pi r^2 = 3.1416 \times r^2$$

$$\text{Circumference } C = 2\pi r = 6.2832 \times r$$

$$r = C/2\pi = 6.2832 \times r = 0.15915 \times C$$

$$\text{Area} = A = 0.02454 \times C^2$$

# Metrology Training Guide

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