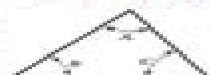




### GEOMETRIC PROPOSITIONS



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

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



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

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



If a line intersects two parallel lines, then the corresponding angles formed by the intersecting line and parallel lines are equal.

Lines AB and CD are 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.

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

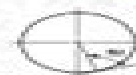


FOCUS



Symbolic Life

### GEOMETRIC PROPOSITIONS



If there is a tangent to a circle, then it is also at right angles to the radius drawn from the center of the circle to the point of tangency. Thus, it is a useful 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 AB, are equal.



Symbolic Floor Model

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

	5.6"	7.6"	20"	30"
25x	2.50"	3.20"	8.00"	12.00"
50x	1.40"	1.80"	4.00"	6.00"
100x	0.70"	0.90"	2.00"	3.00"
125x	0.56"	0.73"	1.60"	2.40"
160x	0.44"	0.58"	1.28"	1.92"
200x	0.35"	0.46"	1.00"	1.50"
250x	0.28"	0.37"	0.80"	1.20"
320x	0.22"	0.29"	0.64"	0.96"
400x	0.18"	0.23"	0.51"	0.75"

\* At 25x magnification, if using a machinist's rule on the screen, 0.001" at the part becomes 0.025" on the screen. At 400x magnification, if using a machinist's rule on the screen, 0.001" at the part becomes 0.400" on the screen.



OGP 300

### AREAS & DIMENSIONS OF PLANE FIGURES



$$\text{Area} = A = a^2 = 10a^2$$



$$\text{Area} = A = ab = a \cdot b^2 = b^2 = ab^2 = b^2$$

$$a = \frac{A}{b} \quad b = \frac{A}{a}$$

$$a = \frac{A}{b} \quad b = \frac{A}{a}$$

$$a = \frac{A}{b} \quad b = \frac{A}{a}$$



$$\text{Area} = A = ab$$

$$a = \frac{A}{b} \quad b = \frac{A}{a}$$

$$a = \frac{A}{b} \quad b = \frac{A}{a}$$

Note: The diagonal is to determine right angles to base.



$$\text{Area} = A = \frac{ab}{2}$$

$$a = \frac{2A}{b} \quad b = \frac{2A}{a}$$

$$a = \frac{2A}{b} \quad b = \frac{2A}{a}$$

$$a = \frac{2A}{b} \quad b = \frac{2A}{a}$$



$$\text{Area} = A = \frac{ab}{2} = \frac{b}{2} \sqrt{a^2 - \left(\frac{b}{2}\right)^2}$$



ADDITIONAL



MACHINING

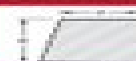


MANUFACTURING

### AREAS & DIMENSIONS OF PLANE FIGURES



$$\text{Area} = A = \frac{ab}{2} = \frac{b}{2} \sqrt{a^2 - \left(\frac{b}{2}\right)^2}$$



$$\text{Area} = A = ab = \frac{ab}{2} \cdot 2$$



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



$$\text{Area} = A = \pi r^2 = 3.1416r^2 = 0.7854d^2$$

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

$$r = \frac{C}{2\pi} = \frac{C}{6.2832} = \frac{C}{2\pi} = \frac{C}{6.2832}$$

$$d = \frac{C}{\pi} = \frac{C}{3.1416} = \frac{C}{\pi} = \frac{C}{3.1416}$$



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

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# Metrology Training Guide

**Emilie Sanchez**



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