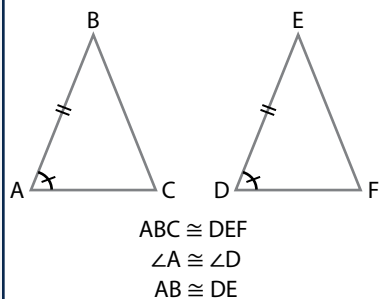
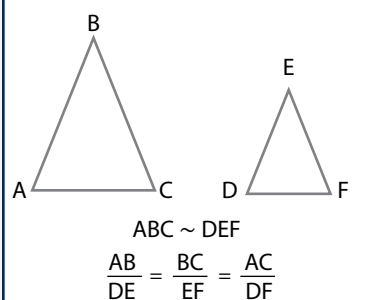


Mathematics: TRIANGLES & CIRCLES

CONGRUENCY



SIMILARITY



SECTORS AND ARCS

Sector area **Arc length**

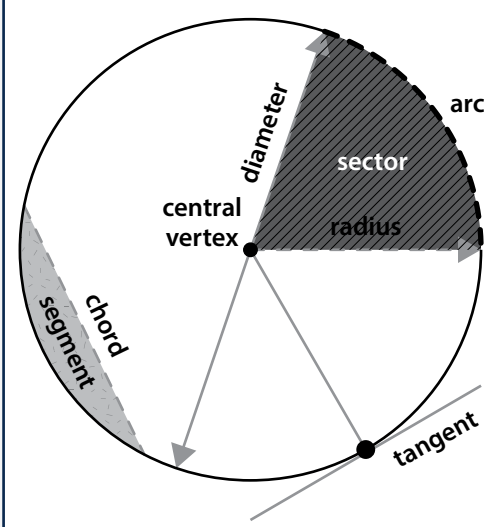
$$A = \frac{\theta}{360^\circ} \pi r^2$$

$$s = \frac{\theta}{360^\circ} 2\pi r$$

$$A = \frac{1}{2} r^2 \theta$$

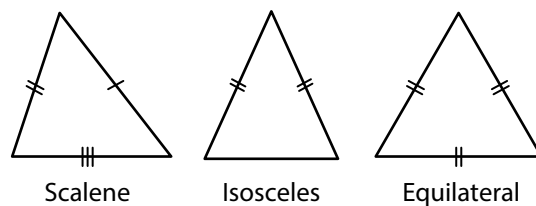
$$s = r\theta$$

PARTS OF A CIRCLE

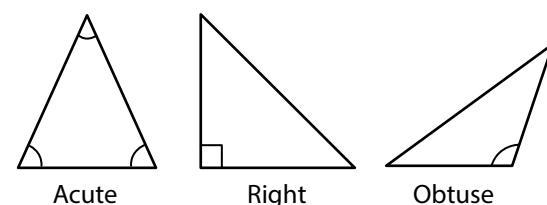


TYPES OF TRIANGLES

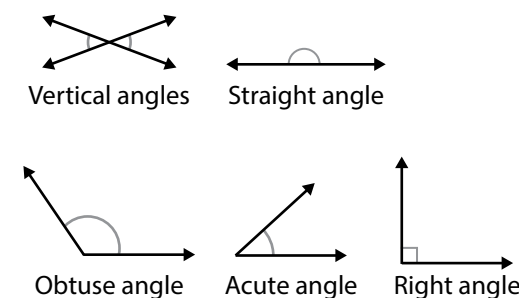
Triangles based on sides



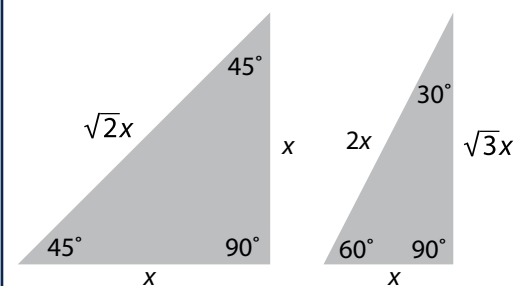
Triangles based on angles



TYPES OF ANGLES



SPECIAL RIGHT TRIANGLES

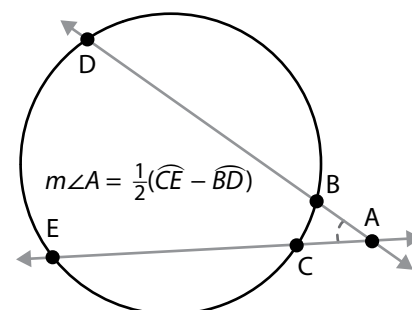


DISTANCE AND MIDPOINT

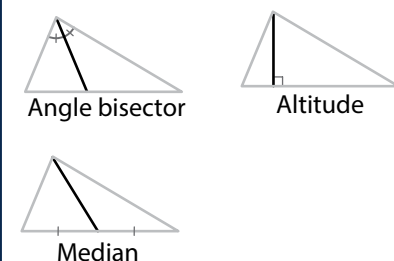
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

FINDING ANGLES IN A CIRCLE



TRIANGLE SEGMENTS



ANGLES IN A CIRCLE

