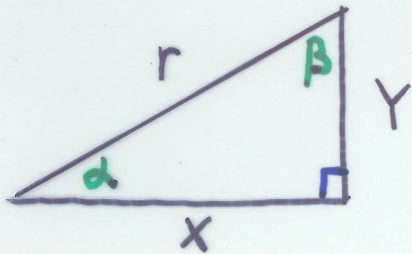


"RIGHT" Δ REVIEW

FOR "RIGHT" TRIANGLES
(MOST USEFUL CASE FOR VECTORS) :



$$\alpha + \beta + 90^\circ = 180^\circ$$
$$x^2 + y^2 = r^2$$

$$\frac{y}{x} = \tan \alpha$$

$$x = r \cos \alpha$$

$$y = r \sin \alpha$$

e.g.

$$\alpha = 60^\circ$$

$$x = 5.0 \text{ m}$$

$$y = 8.7 \text{ m}$$

$$r = 10.0 \text{ m}$$

BUT !

$$\frac{x}{y} = \tan \beta$$

$$x = r \sin \beta$$

$$y = r \cos \beta$$

$$\beta = 30^\circ$$

$$x = 5.0 \text{ m}$$

$$y = 8.7 \text{ m}$$

$$r = 10.0 \text{ m}$$

NOTE SIMILARITY/DIFFERENCE BETWEEN α & β .