

Sections 4.3 – 4.4 in textbook

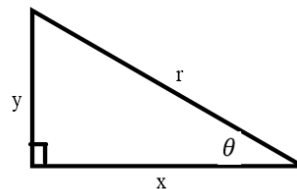
Topics

- Six trigonometric ratios of an angle in a right triangle.

$$\sin \theta = \frac{y}{r} \quad \csc \theta = \frac{r}{y}$$

$$\cos \theta = \frac{x}{r} \quad \sec \theta = \frac{r}{x}$$

$$\tan \theta = \frac{y}{x} \quad \cot \theta = \frac{x}{y}$$



- Inverse trig. functions to find angle measure.

$$\text{If } \sin \theta = \frac{y}{r}, \text{ then } \sin^{-1} \frac{y}{r} = \theta$$

- Word problems using above concepts.

- Six trigonometric ratios of any angle.

Ex. Given point (5,12) on the terminal side of an angle in standard position, find all six trig ratios of theta.

- Find quadrant using signs of trig. ratios.

Ex. $\sin \theta > 0$, and $\cos \theta < 0$, therefore θ is in quadrant 2

- Sketch an angle θ and its reference angle θ'

- Word problems involving angles of elevation and depression.