

Geometry

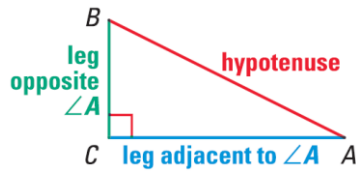
9.5 The Sine and Cosine Ratios

Sine and Cosine Ratios

$$\sin A = \frac{\text{leg opposite } \angle A}{\text{hypotenuse}}$$

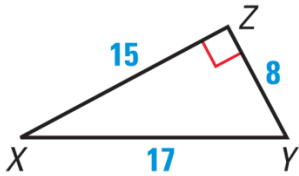
$$\cos A = \frac{\text{leg adjacent to } \angle A}{\text{hypotenuse}}$$

$$\tan A = \frac{\text{leg opposite } \angle A}{\text{leg adjacent to } \angle A}$$



S O H
C A H
T O A

Find $\sin X$, $\cos X$, and $\tan X$



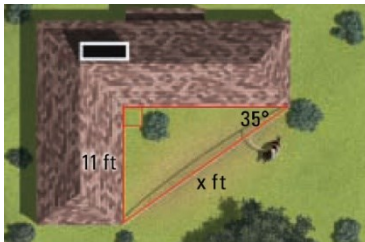
Sine of an angle = cosine of the complement

$$\sin A = \cos(90^\circ - A) = \cos B$$

$$\cos A = \sin(90^\circ - A) = \sin B$$

Write $\cos 68^\circ$ in terms of sine.

Find the length of the dog run (x).

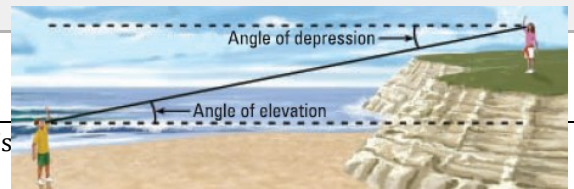


Angle of Elevation and Depression

Both are measured from the _____

Since they are measured to _____ lines, they are _____

The angle of elevation of a plane as seen from the airport is 50° . If the plane's



Assignment: 480 #2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 24, 27, 28, 30, 35, 38, 41, 44, 45, 48 = 20 total