Geometry

9.5 The Sine and Cosine Ratios

Sine and Cosine Ratios

$sin A = \dfrac{leg}{leg}$

$cos A = \dfrac{leg}{leg}$

$tan A = \dfrac{leg}{leg}$

B
leg opposite ∠A
hypotenuse
C leg adjacent to ∠A A

S O H
C A H
T O A

Find sin X, cos X, and tan X

Z
15
8
X   17   Y
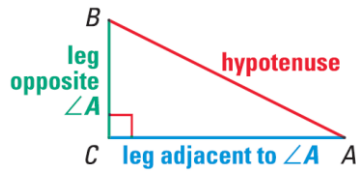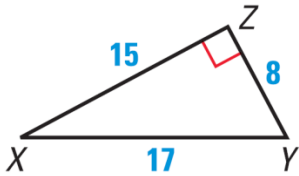
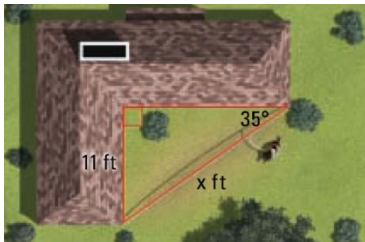
Sine of an angle = cosine of the complement

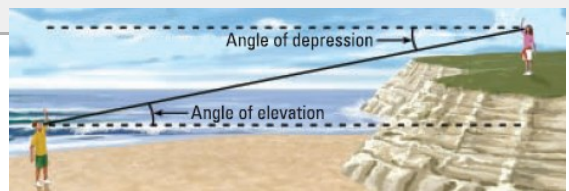$\sin A = \cos(90° - A) = \cos B$

$\cos A = \sin(90° - A) = \sin B$

Write cos 68° in terms of sine.

Find the length of the dog run (x).

35°
11 ft
x ft

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 1000 ft away, how high is plane?

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