Notes for lesson 8-6 (part II) the Cosine Function Today we will introduce the last trig functions to help us solve right triangles.

Cosine < x = <u>side adjacent to < x</u> hypotenuse

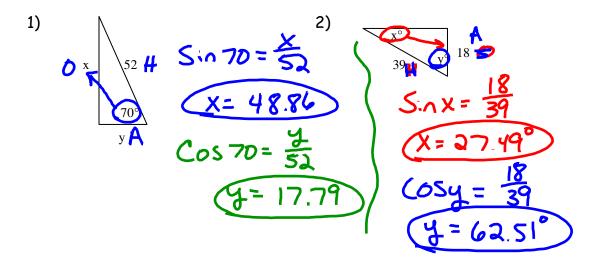
Two easy ways to remember these three functions are below:

SOH CAH TOA

<u>Some Old Horse</u> <u>Caught Another Horse</u> <u>Taking Oats</u> <u>Away</u>

Each letter stands for part of the triangle or the function you need. O = opposite side, A = adjacent side, H = hypotenuse, S = sine, C = cosine, and T = tangent.

Use the appropriate function to solve for each of the variables below.



3) A 20 foot ladder leans against a house. It leans at an angle of 68°. How far is the ladder away from the base of the house?

