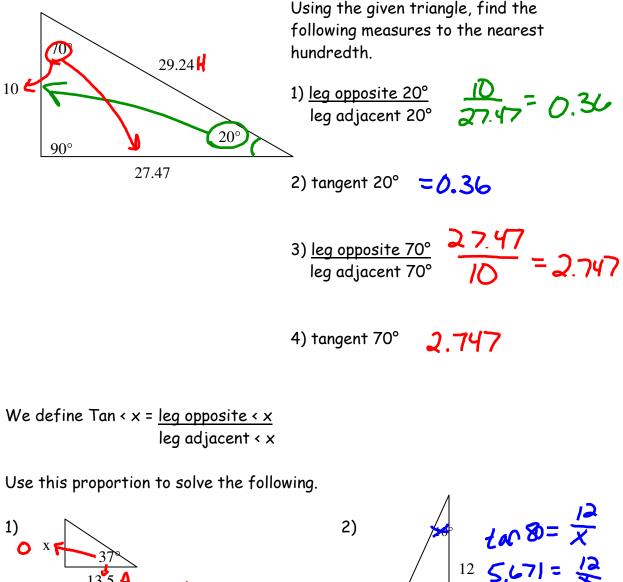
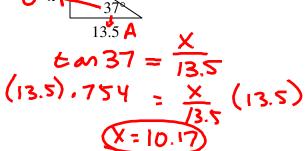
8-5 Using Tangent Ratios to Solve Right Triangles

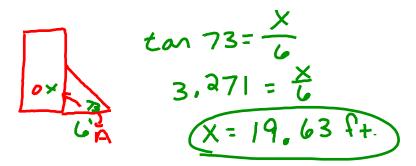
In the last lesson we learned how to use two special right triangles and proportions to find missing values. This lesson will teach another method for solving right triangles with different degree measures then our special triangles.



x

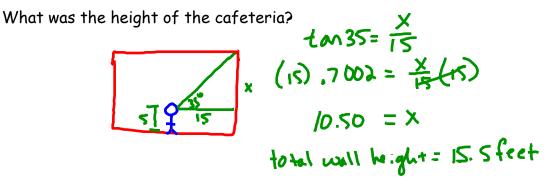


3) A ladder makes a 43 with the ground and sits 6 feet away from the wall. How far up the wall can the ladder reach?



4) Ms. Boyd's students complete a measuring activity using clinometers. One group got the following measurements in the cafeteria:

angle = 35° distance from wall = 15 feet eyeball height = 5 feet



We can also use this ratio to find angle measures. The opposite of tangent is tangent⁻¹ (in your calculator push the 2nd then tan buttons). Use this to find the following angles.

