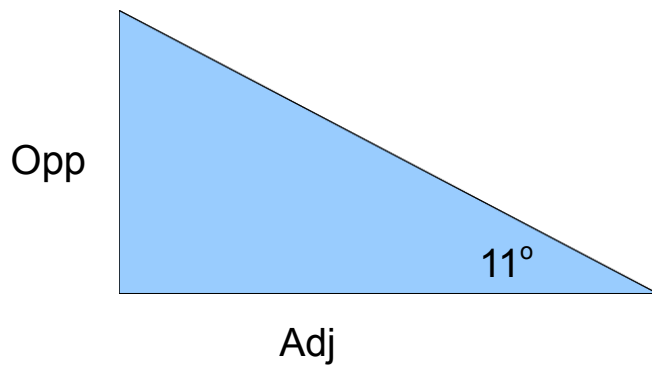


Questions?

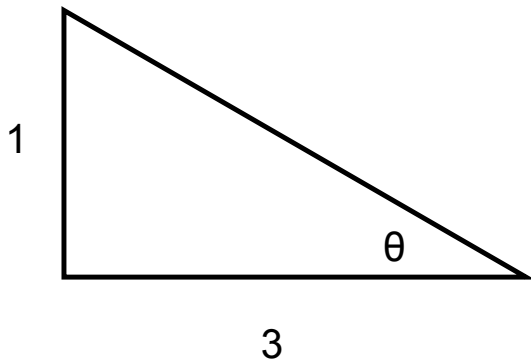
Are you ready?



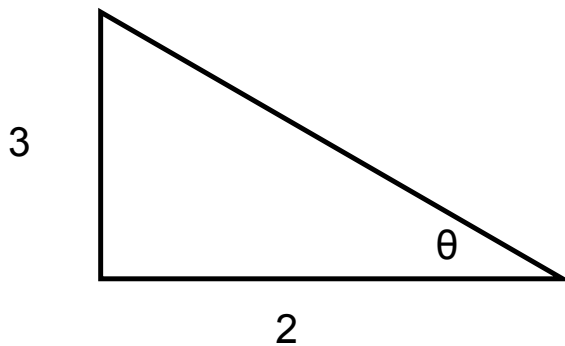
1. What is the approximate slope ratio of a right triangle with an angle of 11° ?



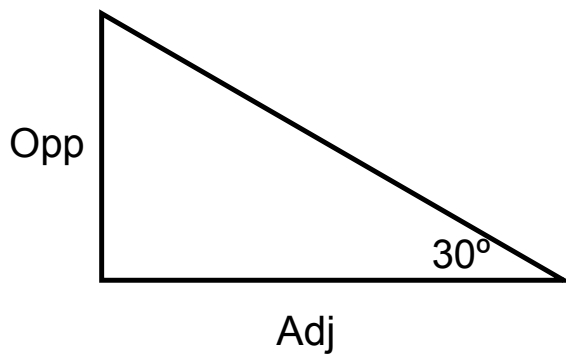
2. What is the approximate measure of the angle for a right triangle with a slope ratio of 3/1?



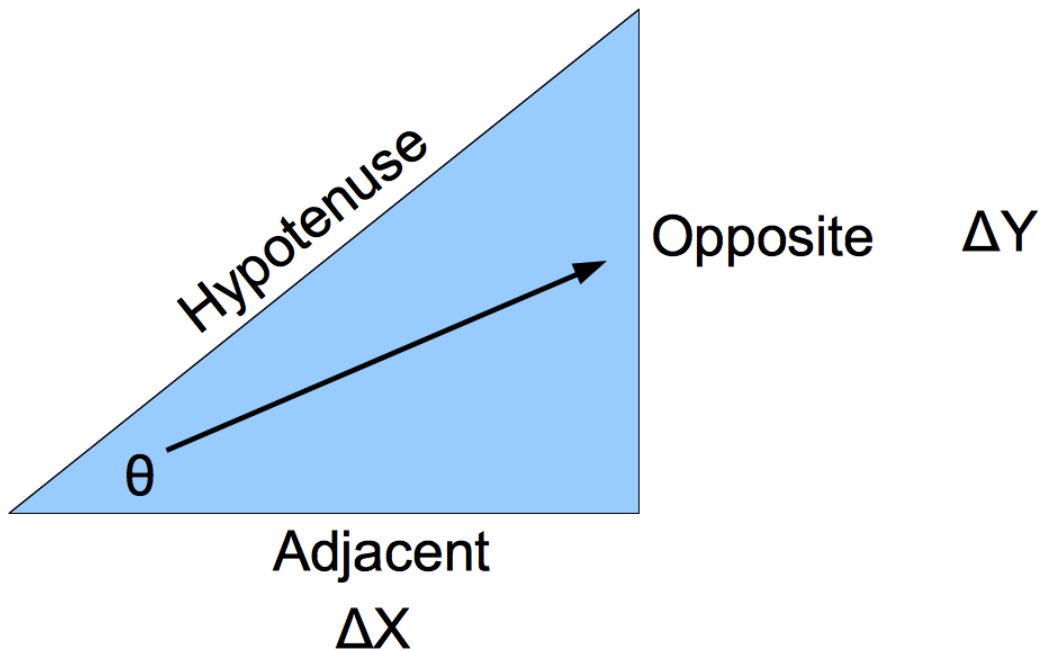
3. What is the approximate measure of the angle for a right triangle with a slope ratio of $3/2$?



4. What is the approximate slope ratio for a right triangle with an angle of 30° ?

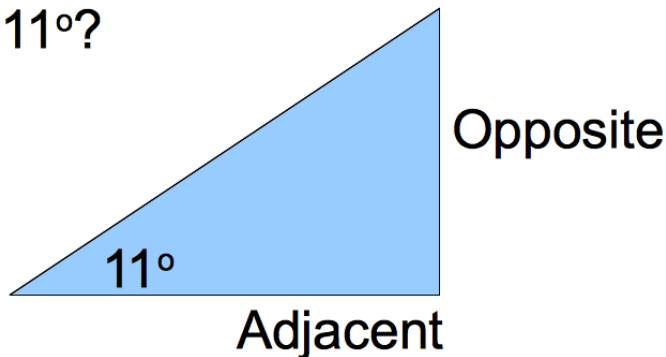


1. With respect to the angle shown, which side is the Hypotenuse and which side is the Opposite and which side is the Adjacent?



This is **NEED TO KNOW** information!

2. What is the exact slope ratio for a right triangle with an angle of 11° ?



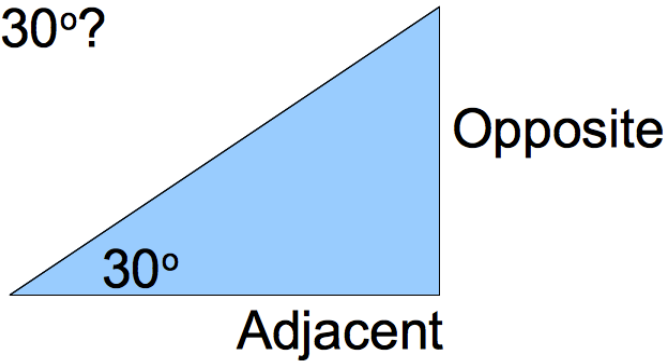
Do you remember that the slope ratio is also called the tangent ratio?

Well, it so happens that $\text{TAN}(11^\circ) = \text{Slope Ratio}$

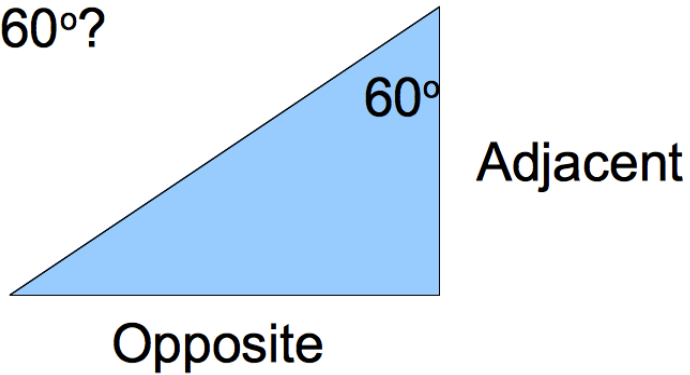
$$\text{TAN}(11^\circ) = \frac{\text{Opposite}}{\text{Adjacent}}$$

Fire up those calculators! How close to $1/5$ is it?

3. What is the exact slope ratio for a right triangle with an angle of 30° ?



4. What is the exact slope ratio for a right triangle with an angle of 60° ?



December 2, 2019

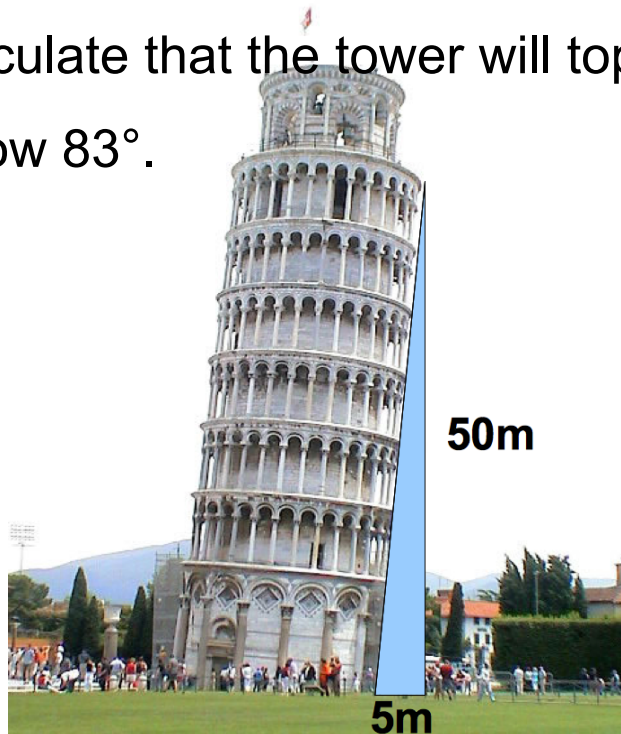


C/W: 4-30 to 4-34

H/W: 4-36 to 4-40

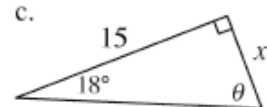
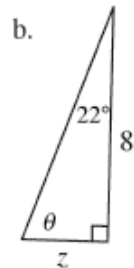
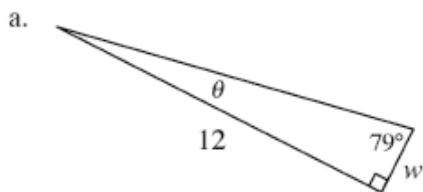
Will it topple?

Engineers calculate that the tower will topple if the slant gets below 83° .

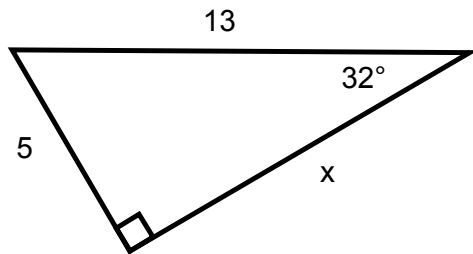




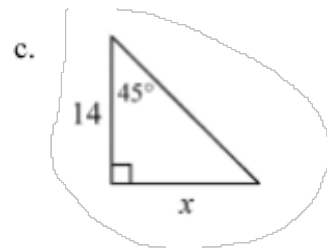
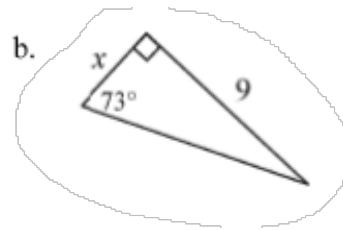
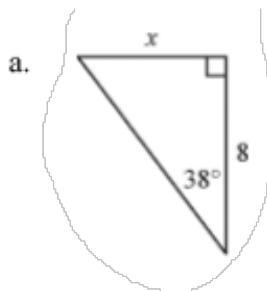
- 4-31. Solve for the variables in the triangles below. It may be helpful to first orient the triangle (by rotating your paper or by using tracing paper) so that the triangle resembles a slope triangle. Use your Trig Table for reference.



Use three ways to find x .



For each triangle below find x .



H/W: 4-36 to 4-40

Tangent Practice worksheet

fin

