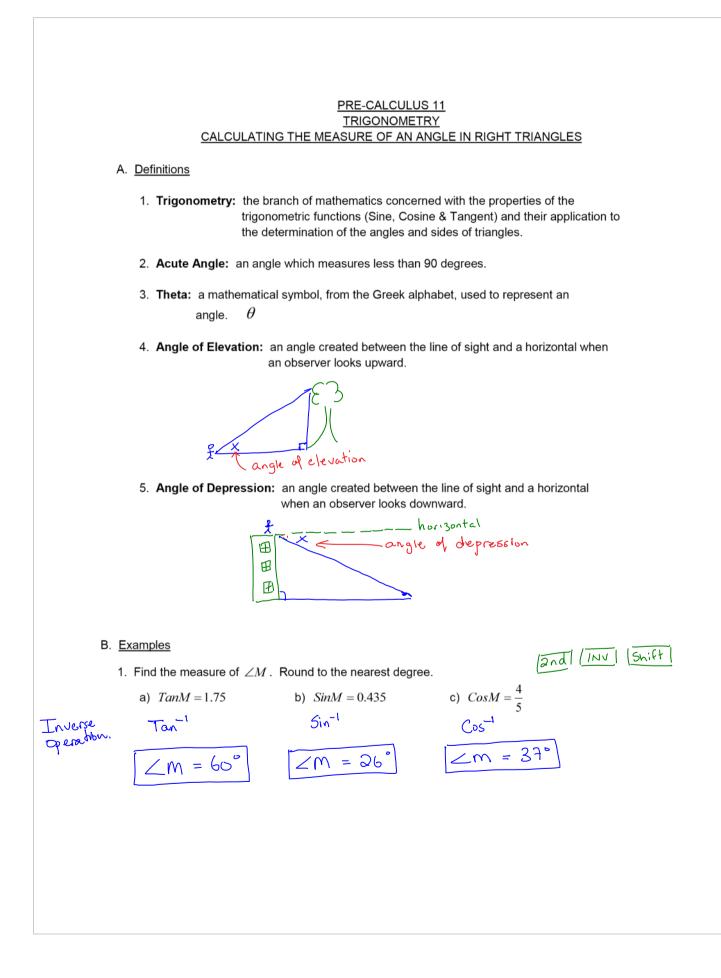
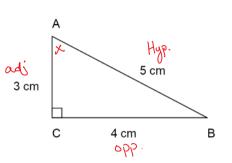
Calculating the Measure of an Angle in Right Triangles

February-08-19 10:22 AM



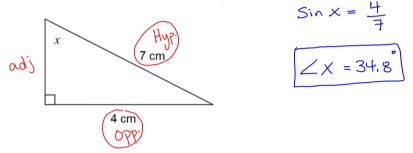
2. Calculate the *TanA* and $\angle A$ for the following diagram. Round the angle to the nearest degree.



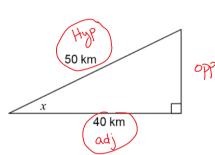
$$Tan A = \frac{4}{3}$$

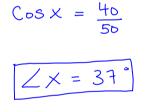
$$\angle A = 53^{\circ}$$

3. Calculate the measure of the indicated angle to the nearest tenth.

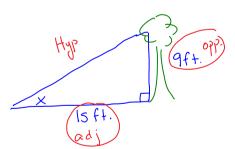


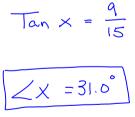
4. Calculate the measure of the indicated angle to the nearest degree.





A tree 9 feet high casts a shadow 15 feet long on the ground. Determine the angle of elevation to the nearest tenth of a degree.



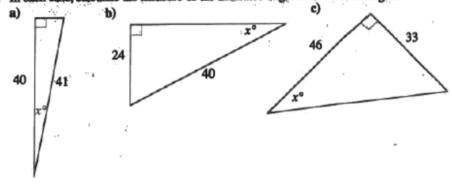


Assignment: Calculating the Measure of an Angle in Right Triangles Assignment #1 - 10

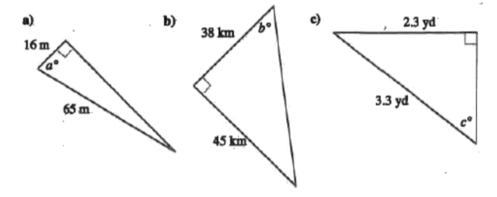
88 Trigonomotry Lesson #4: Calculating the Measure of an Angle in Right Triangles

Assignment

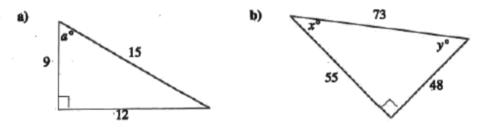
1. In each case, calculate the measure of the indicated angle to the nearest degree.

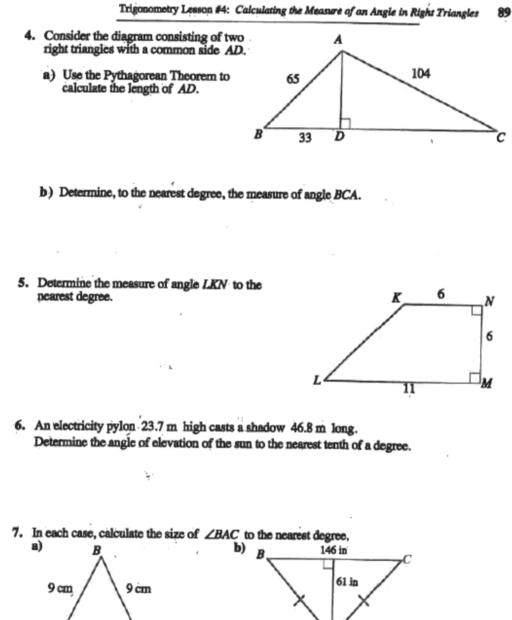


2. In each case, calculate the measure of the indicated angle to the nearest tenth.



3. In each case, calculate the measure of the indicated angle to the nearest degree.





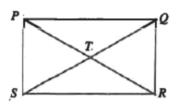
A

7 cm

9

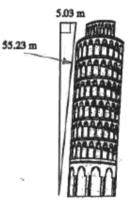
90 Trigonometry Lesson #4: Calculating the Measure of an Angle in Right Triangles

8. In the rectangle, PQ = 12.8 cm and QR = 7.4 cm. Determine the measure of angle PTQ to the nearest degree.



9. The term "% grade" is sometimes used to describe the slope of a road. For example, a road with a 7% grade has a vertical rise of 7 m for every horizontal distance of 100 m. Calculate, to the nearest degree, the angle a road with a 7% grade makes with the horizontal.

 The Leaning Tower of Pisa is a building in Italy which leans due to the instability of the ground underneath it. At different points in history the tower has leaned at different angles. Use the measurements in the sketch to determine the angle of lean from the vertical to the nearest hundredth of a degree.



ε

Chonse 11.

A set of stairs has a vertical rise of 15 cm for every 28 cm horizontal run. To the nearest degree, the angle between the stairs and the floor is

- A. 28°
- B. 32°
- C. 62°
- D. 64°

