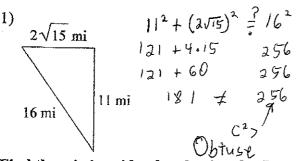
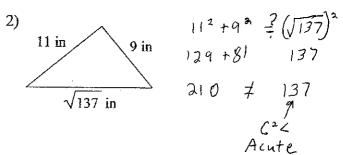
Assessment Chap

Date Period

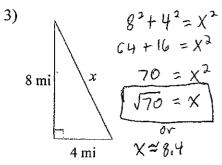
State if each triangle is acute, obtuse, or right.

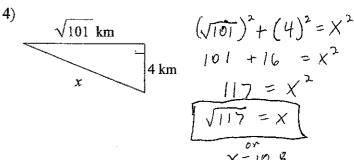


State if each triangle is a right triangle.

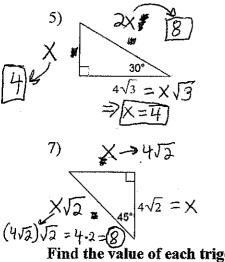


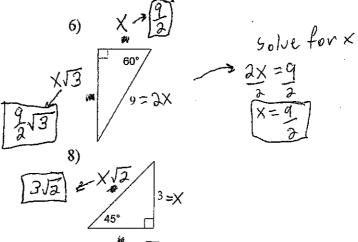
Find the missing side of each triangle. Leave your answers in simplest radical form.



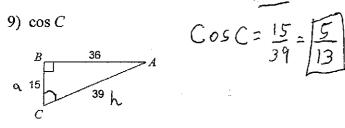


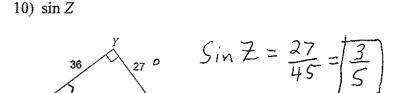
Find the missing side lengths. Leave your answers as radicals in simplest form.



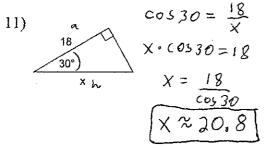


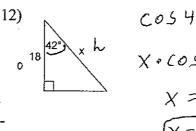
Find the value of each trigonometric ratio.





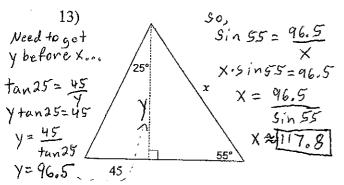
Find the missing side. Round to the nearest tenth.

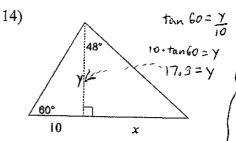


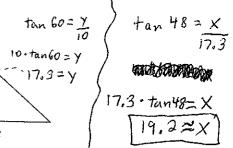


$$\begin{array}{r}
\cos 42 = \frac{18}{X} \\
X \cdot \cos 42 = 18 \\
X = \frac{18}{\cos 42} \\
X = 24.21
\end{array}$$

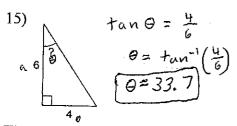
Find the length of the side labeled x. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

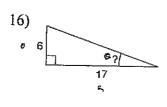


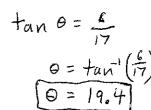




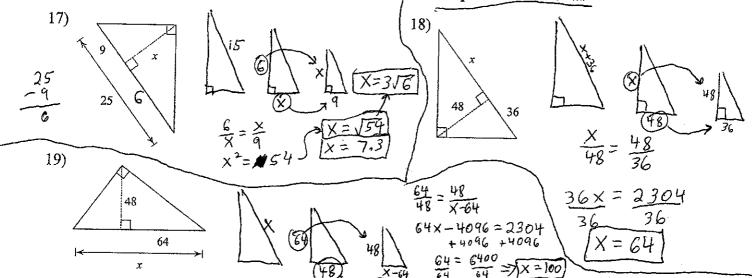
Find the measure of the indicated angle to the nearest degree.







Find the missing length indicated. Leave your answer in simplest radical form.



Show all your work including a picture. Round your answer to the nearest tenth.

20) A soccer ball is placed 10 ft away from the goal, which is 8 ft high. You kick the ball and it hits the crossbar along the top of the goal. What is the angle of elevation of the ball after it is kicked?

$$tan \Theta = \frac{8}{10}$$

$$\Theta = tan'(\frac{8}{10})$$

$$\Theta = 38.7^{\circ}$$

