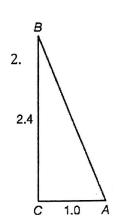
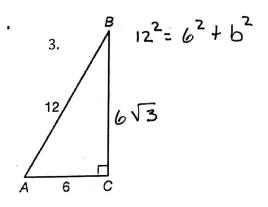
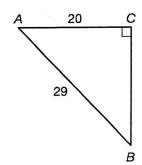
Find the missing side length:



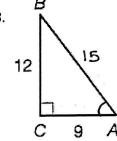


Find all trigonometric functions for angle A in problems 7-8:

7.



8.

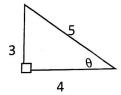


$$5inA = \frac{4}{5}$$
 $cscA = \frac{3}{4}$
 $cosA = \frac{9}{15} = \frac{3}{5}$
 $secA = \frac{5}{3}$
 $tanA = \frac{4}{3}$
 $cotA = \frac{3}{4}$

$$CSCA = \frac{5}{4}$$

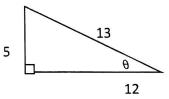
 $SLCA = \frac{5}{3}$
 $COTA = \frac{3}{4}$

Find all trigonometric functions for the given triangles for angle $\, heta\,$.



10.





$$5in\theta = \sqrt{2}/2$$

$$cos\theta = \sqrt{2}/2$$

$$tan\theta = 1$$

$$csc\theta = \sqrt{2}$$

$$sec\theta = \sqrt{2}$$

$$cot\theta = 1$$

Evaluate using a calculator. Round to 3 decimal places.

12. sin 23°

13. cos 59°

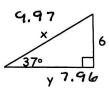
- 14. tan 87°
- 15. sin 4°

0.391

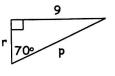
19.08/

Set up and use trigonometric ratios to find the missing values.

14



15.

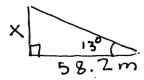


$$X = \frac{6}{\sin 37}$$

y 2 7.96

16. The angle of elevation from the base of a waterslide to the top is about 13°. The slide extends horizontally (along the ground) about 58.2 meters. How tall is the slide?

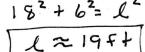
nint:



17. You are painting a mural on a wall 18 feet high. So the ladder is stable, is must be placed 6 feet away from the wall. To the nearest foot, how tall must the ladder be?

18² + 6²= L^2

12



BONUS: A standard baseball diamond is a square with 90 foot sides. How far must the first baseman be able to throw to get someone out on third base? Give answer to the nearest tenth of a foot.