5. Tan A = $\frac{18}{4}$ = $\frac{9}{7}$

6. $\sin B = \frac{14}{122}$

3. $\cos B = \frac{|S|}{22} = |9|$

1. Sin A = 18/22= 9/11

2. Cos A =

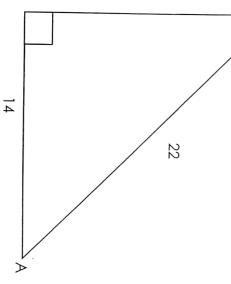
σ

Directions: Find the correct ratio. Write your answer as a simplified FRACTION.

4. $Tan B = \frac{14}{18} = \frac{7}{9}$

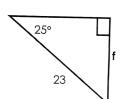
18

 \cap

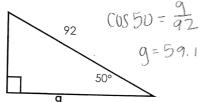


<u>Directions:</u> Find the indicated values. Round your answer the nearest TENTH.

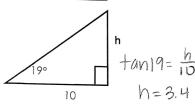
Sin25= 1/23

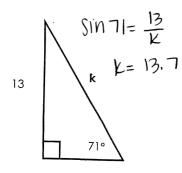


F=9.7

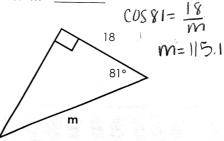


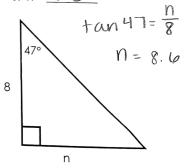
$$50 = \frac{9}{92}$$
 3.h = $\frac{3.4}{9}$





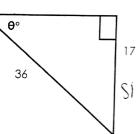
2. g = 59.1





ections: Solve for the indicated measures. Round your answers to nearest TENTH.



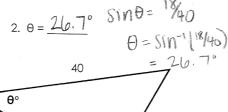


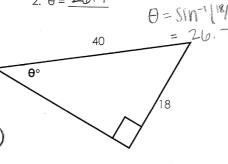
$$\sin \theta = \frac{17}{310}$$

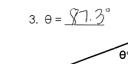
$$\theta = \sin^{-1}(17/36)$$

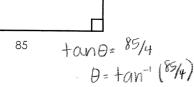
$$\theta = 28.2^{\circ}$$

$$\theta = 28.2^{\circ}$$

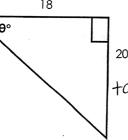


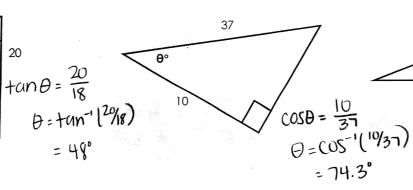


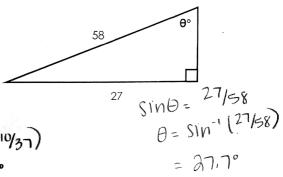




4.
$$\theta = \frac{48^{\circ}}{18}$$







<u>Directions:</u> Solve the following word problems. Round your answer to the nearest HUNDREDTH.

1. A boy flying a kite lets out 300 feet of string which makes an angle of 38° with the ground. Assuming the string is straight, how

high above the ground is the kite?



$$5 = \frac{x}{300}$$

2. A tree casts a shadow that is 42 feet long. The angle of elevation to the top of the tree is 38°. How tall is the tree?

38° X

$$7 = 32.81 f+$$

3. A radio tower is 78 feet tall. Find the angle of elevation to the top of the tower at a point on level ground 60 feet from its base. $+ an \theta = \frac{18}{60}$

78 7 8

4. The base of a lighthouse that is 500 feet away from a buoy in the ocean has a 67° angle of depression from the top of the lighthouse to the buoy. How tall is the lighthouse?

670

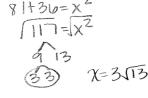
$$\chi = 1177.93f+$$

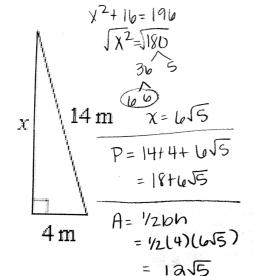
<u>Directions:</u> Find the missing side of the triangle. Then find the perimeter & the area. Leave all answers in simplified radical form!

$$2.x = 3\sqrt{13} \text{ mi}$$

1

6 mi





<u>Directions:</u> Solve the right triangles completely. Round all answers to the nearest HUNDREDTH.

