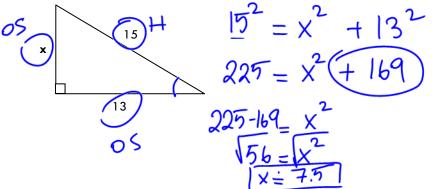
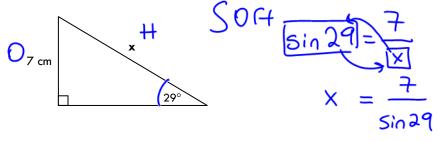
Date: _____ Unit 1: Trigonometry

Trigonometry Review

1. Find the value of side x, rounded to the <u>nearest tenth</u>

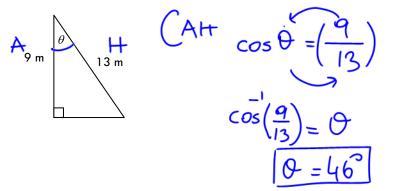


2. Find the value of angle θ and side x, rounded to the nearest tenth

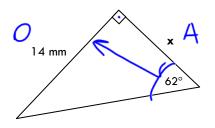


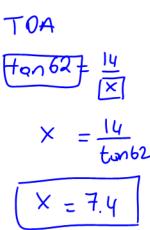
x = 14.4 cm

3. Find the value of angle θ rounded to the nearest degree .



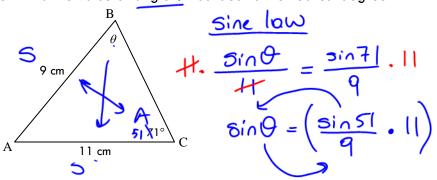
4. Find the value of side x, rounded to the nearest tenth





MBF3C: Mathematics of Personal Finance Day 7: Unit Review

5. Find the value of angle θ rounded to the nearest degree



 $= \frac{3in7}{9} \cdot 11$ $= \left(\frac{3in51}{9} \cdot 11\right)$ $= \left(\frac{3in51}{9} \cdot 11\right)$

١

SinA

a

Date:

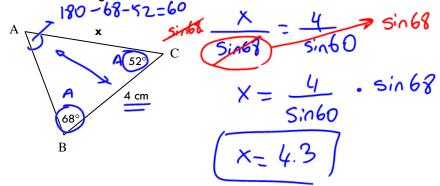
0

=72°

Sin B

Unit 1: Trigonometry

6. Find the length of side x rounded to the nearest tenth

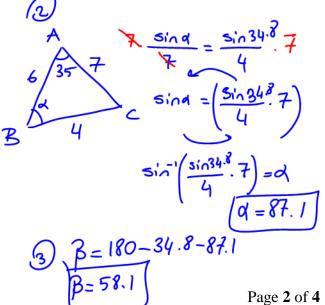


7. Find the length of side x rounded to the nearest tenth

$$C = \frac{3 \text{ ft}}{42^{\circ}} = \frac{B^{2} + C^{2} - 2bc\cos A}{5 \text{ ft}}$$

$$A = \frac{2}{5} + \frac{5^{2}}{5} - 2 \cdot 3 \cdot 5 \cdot \cos(42)$$

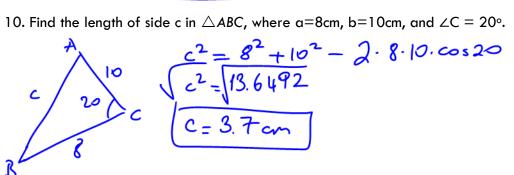
$$X^{2} = \frac{11.7057}{X} = 3.4$$



9. Find the length of side c in $\triangle ABC$, where $\angle A=45^{\circ}$, $\angle C=75^{\circ}$, and a = 12 cm.

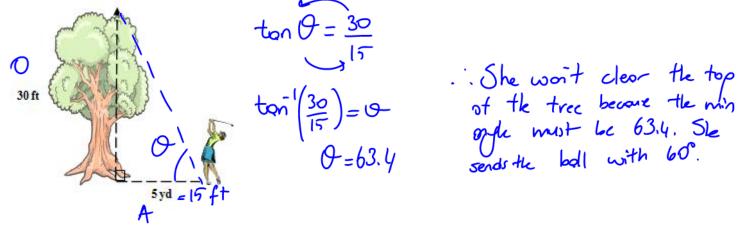
$$\frac{c}{45} \frac{sin}{5} \frac{c}{sin} = \frac{12}{sin} \frac{sin}{5} \frac{c}{sin} \frac{c}{5} \frac{c}{sin} \frac{$$

10. Find the length of side c in $\triangle ABC$, where a=8cm, b=10cm, and $\angle C = 20^{\circ}$.

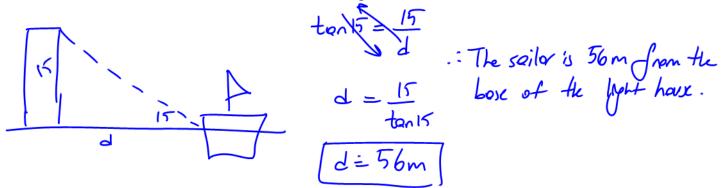


11. Find the measure of $\angle B$ in $\triangle ABC$, where a=8 cm, b =10 cm and c = 10 cm. 10 10^{-10} 10^{-10} $2 \cdot 10 \cdot 8^{-10}$ $2 \cdot 10 \cdot 8^{-10}$ $2 \cdot 10 \cdot 8^{-10}$ $2 \cdot 10 \cdot 8^{-10}$ -06.4 $(a)^{-1}(\frac{64}{100}) = 0$ C

12. A golfer hit her tee shot so that it landed 5 yd behind a 30 ft tall tree. She decided to take her second shot and hoped the ball would make it over the top of the tree. She used her lob wedge and hit the ball, sending it upward at an angle of 60°. Was she able to clear the top of the tree? Hint: there are 3 ft in 1 yd



13. A lighthouse is 15 m tall. A sailor, in his sailboat, looks up to the top of the lighthouse at angle of elevation of 15° . How far is the sailor from the base of the light house?



14. To measure the distance across a river, a surveyor took measurements and drew the diagram shown. Determine the distance from X to Y.

$$\frac{180-40-78=62}{2}$$

$$\frac{1}{2}$$

$$\frac{1}{40^{\circ}}$$

$$\frac{1}{78^{\circ}}$$

$$\frac{1}{2}$$

$$\frac{1$$

15. The posts of a hockey goal are 2.0 m apart. Adam is 4.2 m from one post and 5.6 m from the other post. Within what angle must he shoot the puck to score the goal? 2^{2}

