# **Unit 3 Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per\_\_\_\_\_**

1. Cos β = \_\_\_\_\_\_\_\_\_ 4. Cos α= \_\_\_\_\_\_\_\_

β

**17**

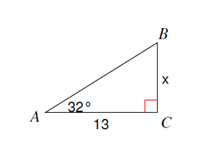
2. Sin β = \_\_\_\_\_\_\_\_\_ 5. Sin α = \_\_\_\_\_\_\_\_

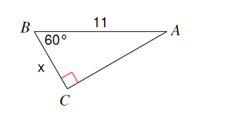
**8**

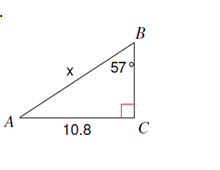
α

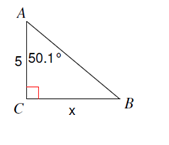
3. Tan β = \_\_\_\_\_\_\_\_ 6. Tan α = \_\_\_\_\_\_\_

**15**

**Solve for the missing sides using Trig Ratios (sin, cos, tan). Round answers to the nearest tenth**.

7. 8.

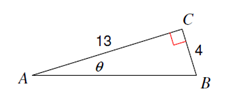


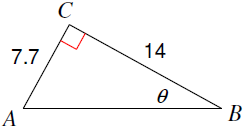


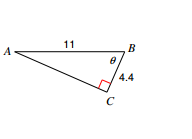
10.

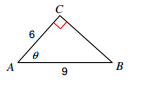
9.

**Find the missing angles using inverse trig. Round answers to the nearest tenth**



11. 12.



 13. 14.

15. (a) Sin 57 ° = Cos \_\_\_\_\_\_\_° (b) cos 32.5° = sin \_\_\_\_\_\_\_°

16. Angles A and B are acute angles in a right triangle. If , then **cos B**=**\_\_\_\_\_\_\_\_\_\_**

17. Angles A and B are acute angles in a right triangle. If **cos A** = **,** then **sin B =\_\_\_\_\_\_\_\_\_\_**

**Application Problems:**

1. An 8 foot ladder is leaning against a wall so that the base is 5 feet from the base of the wall. What angle does the ladder make with the ground? Round to the nearest tenth.
2. Joe is standing 25 feet from a building and is looking at the top with an angle of elevation of 65°. How tall is the building? Round to the nearest tenth.
3. A kite is being flown using 100 yards of string. The kite has an angle of elevation with the ground of 55 degrees. How high above the ground is the kite?