Geometry Chapter 9 Test Review

- 1. The geometric mean of 5 and 15 is _____
- The city commission wants to construct a new street that connects Main Street and North Boulevard as shown in the diagram below. The construction cost has been estimated at \$110 per linear foot. Find the estimated cost for constructing the street. (1 mile = 5280 ft)



3. ΔABC is a right triangle. $A8 = ____$



- 4. A set of Pythagorean triples is
- [A] 1, 1, 2 [B] 5, 12, 13 [C] 6, 9, 12 [D] 3, 5, 9 5. Which set of lengths cannot form a right triangle?
- [A] 10 mm, 24 mm, 26 mm
- [B] 20 mm, 48 mm, 52 mm
- [C] 5 mm, 12 mm, 13 mm
- [D] 11 mm, 24 mm, 26 mm
- 6. If the side lengths of a triangle are 7, 6, and 9, the triangle _____
- The shorter leg of a 30"-60"-90" triangle is 3.4 feet long. Find the perimeter.
- An equilateral triangle has side lengths of 10. The length of its altitude is
- 9. Write cos A.



- 10. The cosine of ∠4 is the ratio
- The tangent of ∠B is _____
- 12. What is x to the nearest hundredth? (not drawn to scale)
- 13. Find the missing angle and side measures of ∆ ABC, given that ∠A = 20 ° , ∠ C = 90 ° , and CB = 6.
- Two legs of a right triangle have lengths 15 and 8. The measure of the smaller acute angle is
- 15. Which of the following is NOT enough information to solve a right triangle?
- [A] Two angles
- [B] One side length and one acute angle measure
- [C] One side length and one trigonometric ratio
- (D) Two sides

16. Find the length of the leg of this right triangle. Give an approximation to 3 decimal places.



17. Solve for a and b.



18. Find a, b, and h.



Find the length of the altitude drawn to the hypotenuse.



20. For each set of numbers, determine whether the numbers represent the lengths of the sides of an acute triangle, a right triangle, an obtuse triangle, or no triangle.

- B. 16, 19, 34
- C. 7.8, 10.4, 13
- 21. The length of the diagonal of a square is 22. What is the length of each side?
- 22. Find the value of x and y.



23. Find the value of x and y.



24. Find sin P. cos P. tan P.



25. Find the value of x, to the nearest whole number, (not drawn to scale):



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