Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Geometry Period \_\_\_\_\_

Chapter 8: Right Triangles and Trig Vocab Test

**Definitions**

a. In a right triangle, the sum of the squares of the legs is equal to the hypotenuse squared.

b. the ratio in a right triangle of the opposite side over the adjacent side

c. In a 30-60-90 triangle, the side opposite the 60 degree angle is known as the \_\_\_\_\_\_\_\_\_\_.

d. A right triangle in which the value of the hypotenuse is twice the short leg.

e. A set of 3 whole numbers that satisfy the Pythagorean Theorem.

f. A right triangle in which the value of the hypotenuse is $\sqrt{2}$ times the leg.

g. the ratio in a right triangle of the opposite side over the hypotenuse

h. the ratio in a right triangle of the adjacent side over the hypotenuse

i. the side of a right triangle that is opposite the right angle

j. when the sum of 3 angles in a triangle equal 180⁰

**Examples**



1. a2 + b2 = c2
2. Side Lengths of a Triangle: 3, 4, and 5
3. Triangle DEF
4. Triangle ABC
5. Segment ED
6. In triangle ABC, the \_\_\_\_\_∠B = $\frac{3}{3}$
7. Segment CB
8. m∠DEF + m∠EFD + m∠FDE = 180⁰
9. In triangle DEF, the \_\_\_\_\_∠F = $\frac{8\sqrt{3}}{8}$
10. In triangle DEF, the \_\_\_\_\_∠F = $\frac{4}{8}$

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Chapter 8: Right Triangles and Trig Vocabulary Test

|  |  |  |
| --- | --- | --- |
|  | Definition | Example |
| Sine |  |  |
| Cosine |  |  |
| Tangent |  |  |
| 30-60-90 Triangle Theorem |  |  |
| 45-45-90 Triangle Theorem |  |  |
| Pythagorean Theorem |  |  |
| Long Leg |  |  |
| Hypotenuse |  |  |
| Pythagorean Triple |  |  |
| Triangle Sum Theorem |  |  |