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General Questions

Practice Questions

Q1. In a right triangle, if one leg is 3 units and the other leg is 4 units, what is the length of the hypotenuse?

A. 5 units
B. 6 units
C. 7 units
D. 8 units

Solution: Using the Pythagorean theorem, $c = \sqrt{(3^2 + 4^2)} = \sqrt{(9 + 16)} = \sqrt{25} = 5$ units.

Q2. In triangle DEF, if DE = 6, DF = 8, and EF = 10, what is the type of triangle?

A. Acute
B. Obtuse
C. Right
D. Equilateral

Solution: Since $6^2 + 8^2 = 10^2$, triangle DEF is a right triangle.

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