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General Questions

Practice Questions

Q1. In a right triangle, if one angle is 45 degrees, what is the ratio of the lengths of the legs?

A. 1:2
B. 1:1
C. 2:1
D. √2:1

Solution: In a 45-45-90 triangle, the legs are equal, so the ratio is 1:1.

Q2. In a triangle, if the lengths of two sides are 5 cm and 12 cm, what is the maximum possible length of the third side?

A. 16 cm
B. 17 cm
C. 18 cm
D. 19 cm

Solution: By the triangle inequality theorem, the maximum length of the third side is less than the sum of the other two sides: 5 + 12 = 17 cm.

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