



SoulShift - Educational Q&A Platform

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. $\sqrt{2}:1$

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.



