



# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



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**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.*



