



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

## **General Questions**

Practice Questions



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**Q1. If point C(4, 5) is the midpoint of segment AB, and A is at (2, 3), what are the coordinates of point B?**

- A. (6, 7)
- B. (8, 9)
- C. (4, 5)
- D. (2, 3)

*Solution: Using the midpoint formula:  $B = (2 \cdot C - A) = (2 \cdot 4 - 2, 2 \cdot 5 - 3) = (6, 7)$ .*

**Q2. Find the coordinates of the point that divides the segment joining (1, 2) and (3, 4) in the ratio 2:1.**

- A. (2, 3)
- B. (2.67, 3.33)
- C. (2.5, 3.5)
- D. (3, 4)

*Solution: Using the section formula:  $P(x, y) = ((2 \cdot 3 + 1 \cdot 1)/(2+1), (2 \cdot 4 + 1 \cdot 2)/(2+1)) = (2.67, 3.33)$ .*



