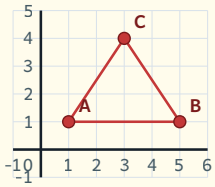
Drawing a shape from a list of co-ordinates

DRAWING A TRIANGLE FROM (1, 1), (5, 1), (3, 4)



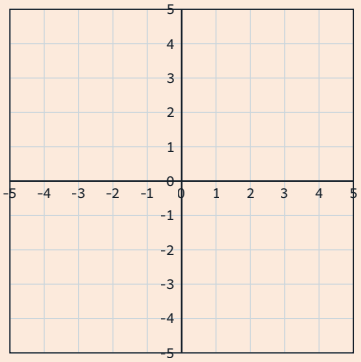
1. Plot **A (1, 1)** — go **1 right, 1 up** from the origin.
2. Plot **B (5, 1)** — same height as A, **5 right**.
3. Plot **C (3, 4)** — **3 right, 4 up**.
4. Join A→B→C→A with a ruler. The result is an **isosceles triangle**.

HOW TO ANSWER TODAY

- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.
  (3, 5) → Q1 · (−2, 1) → Q2 · (0, 4) → on the y-axis
- **Distance on an axis.** If the two points share x or y, subtract the OTHER coordinates. Answer is in units.
  (2, 5) and (2, 9) share x=2 → 9 − 5 = 4 units

TRY IT ON THE LINE

Plot the listed points in order, join them with a ruler, and name the shape you draw.



1. Plot **(1, 1), (4, 1), (4, 4), (1, 4)** and close the shape. What is it? _____
2. Plot **(−2, 1), (2, 1), (0, 4)** and close the shape. What is it? _____
3. Plot **(−3, −2), (3, −2), (3, 2), (−3, 2)** and close the shape. What is it? _____
4. Plot **(0, 3), (3, 0), (0, −3), (−3, 0)** and close the shape. What is it? _____