(a) Write the coordinates:

(i) of point A — (-4, 4)

(ii) of point B — (-4, -2)

(iii) of point C — (6, -6)

(iv) of point D — (2, 4)

(b) Point E is such that quadrilateral ABED is a square. What are the coordinates of point E?

(2, -2)

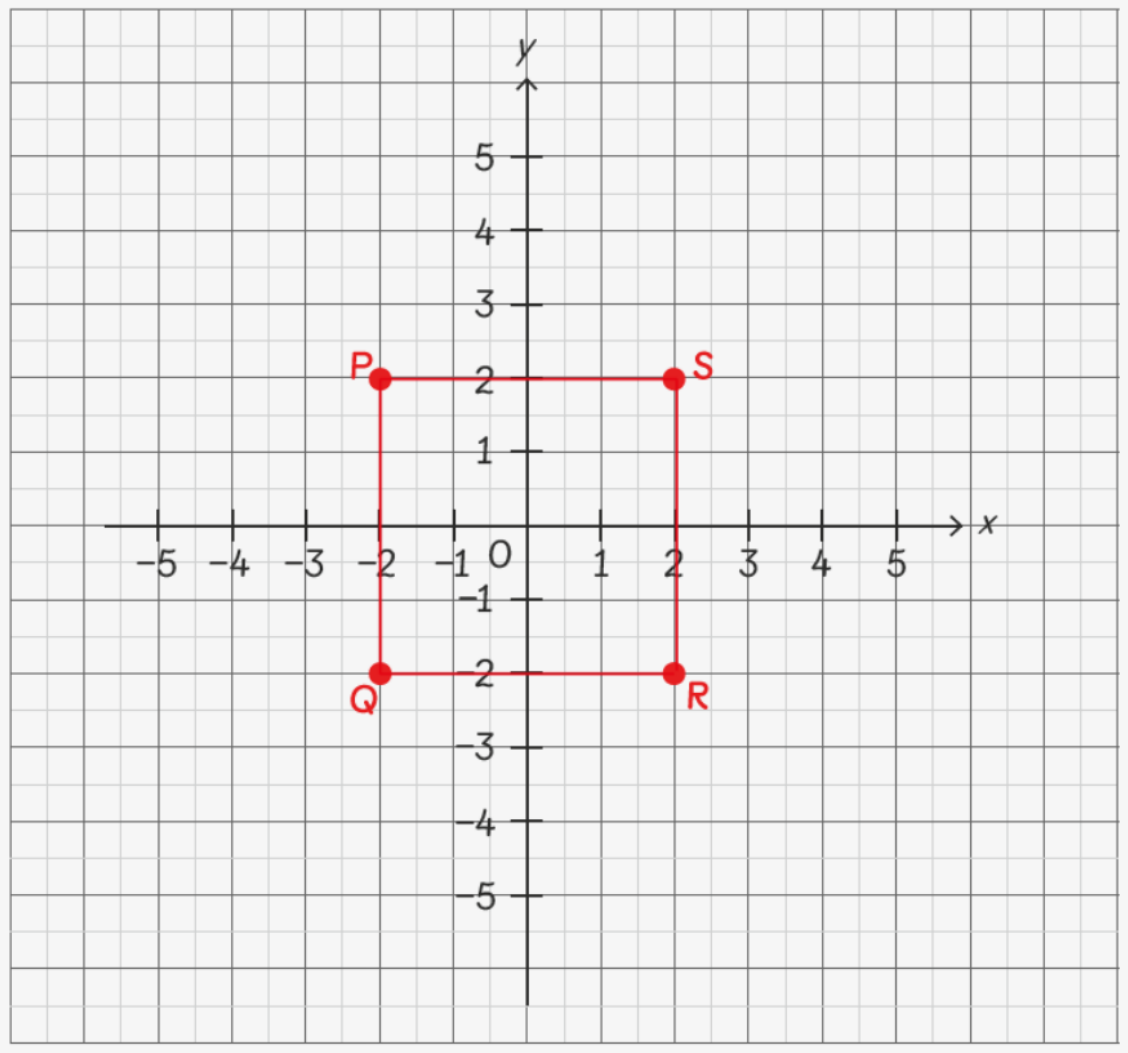
(c) Point F is such that triangle BFC is a right-angle triangle. Write one possible pair of coordinates of point F.

(-4, -6), (6, -2), (3, 1)

(d) Point G is at (–2, 6). What is the shape of quadrilateral AGDB?

Trapezium

2



(a) The coordinates of some points are:

P (−2 , 2) Q (−2 , −2) R (2 , −2) S (2 , 2)

Draw and label the points on the graph.

(b) State the shape of the quadrilateral PQRS.

Square

(c) Point T is below the line QR, such that the area of triangle TQR is half the area of PQRS. Write the coordinates of a possible point T.

Answers will vary. (2, -6)