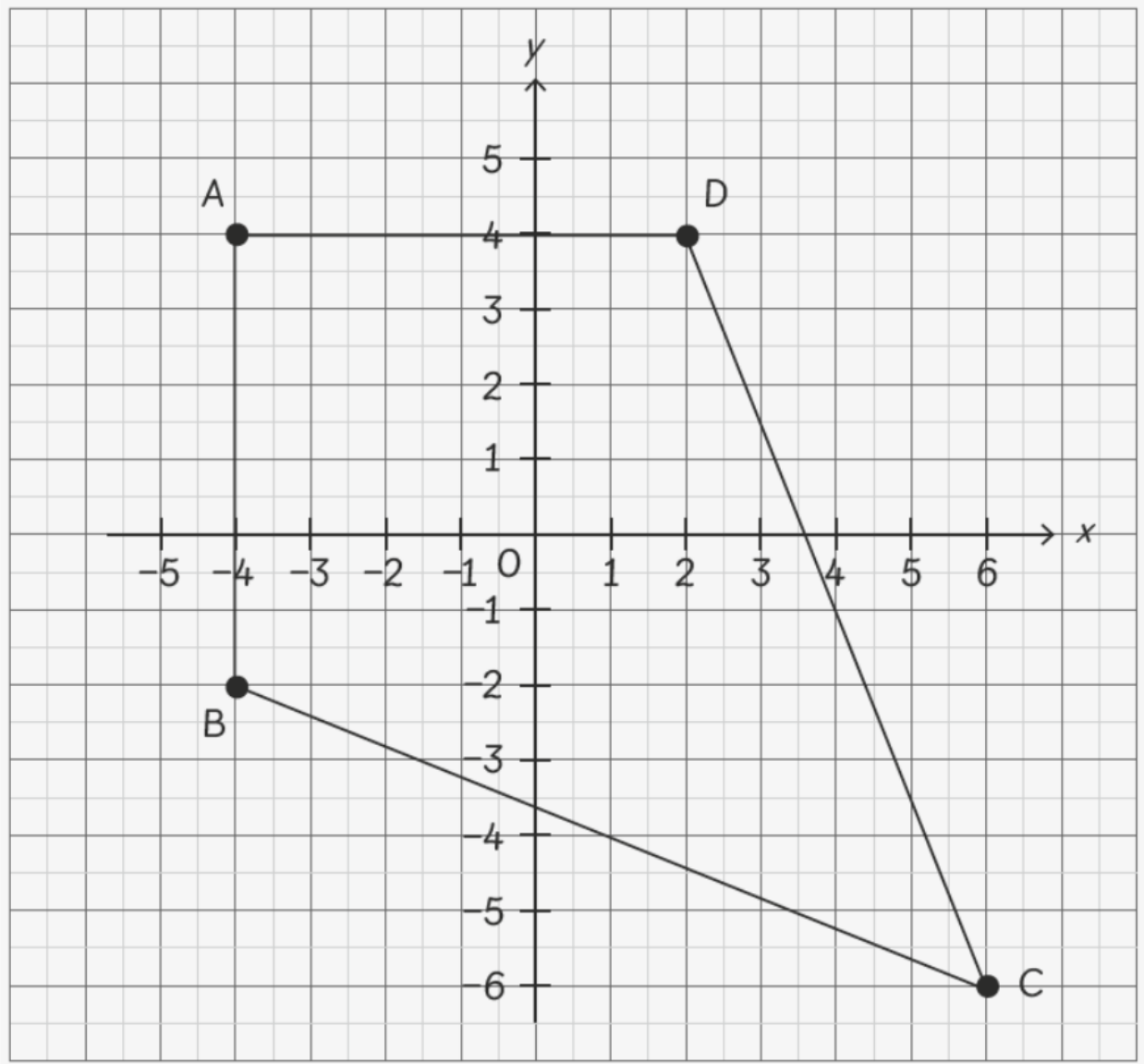# Worksheet 3

Describing Position

1 A kite ABCD is shown in the graph below.

(a)   Write the coordinates:

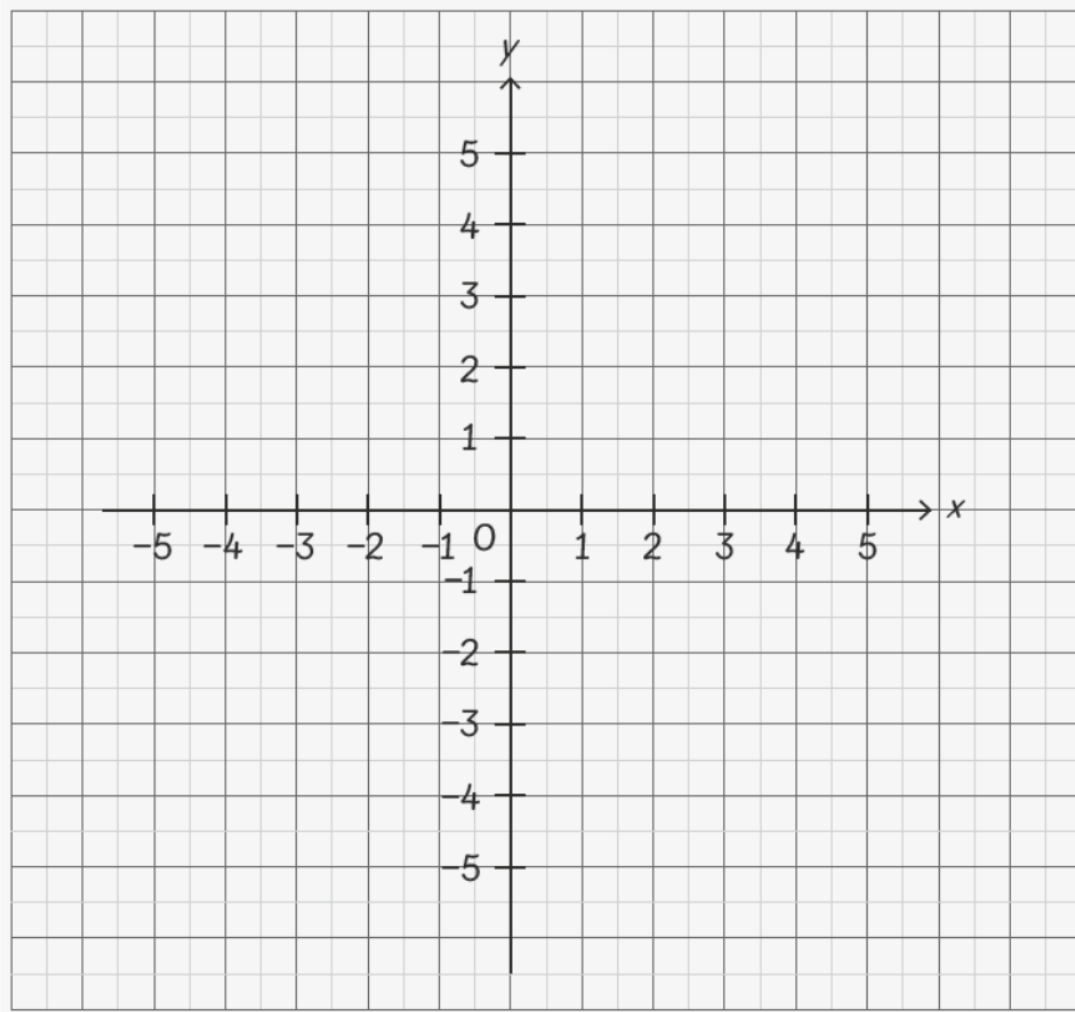   (i)   of point A

   (ii)   of point B

   (iii)   of point C

   (iv)   of point D

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

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

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

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.

(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.