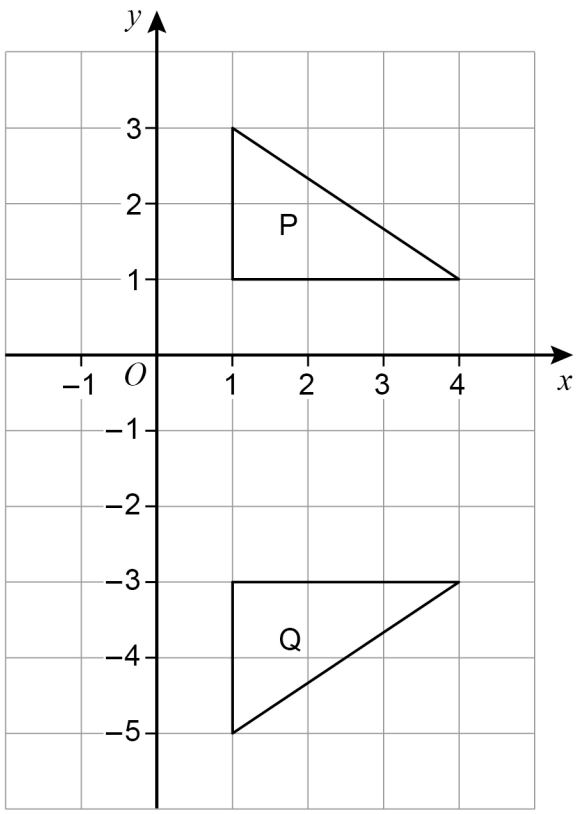
1 (a) Here are two triangles, P and Q.



Here is a statement.

A transformation that maps P to Q is a reflection in the line $x = -1$

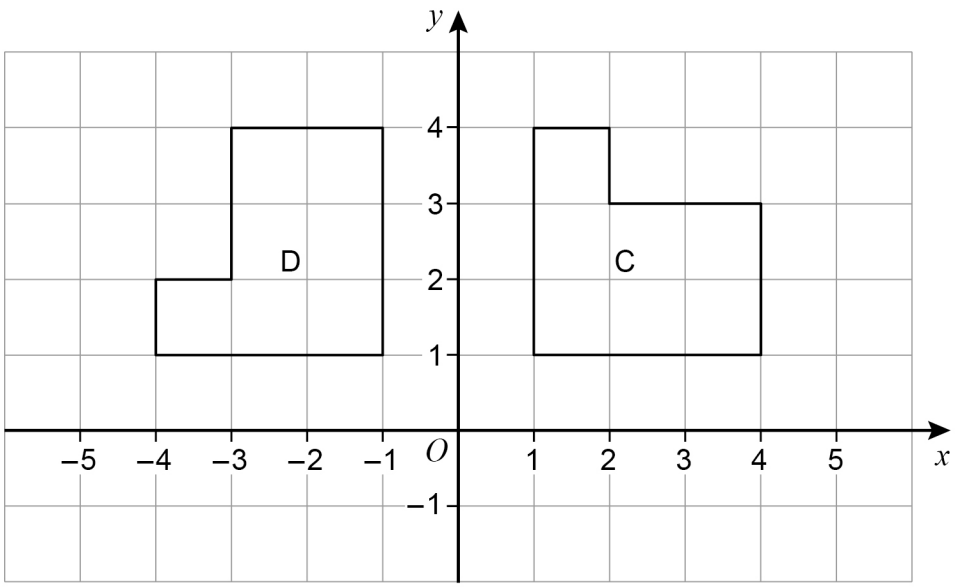
Make **one** criticism of the statement.

[1 mark]

_____

_____

1 (b) Here are two shapes, C and D.



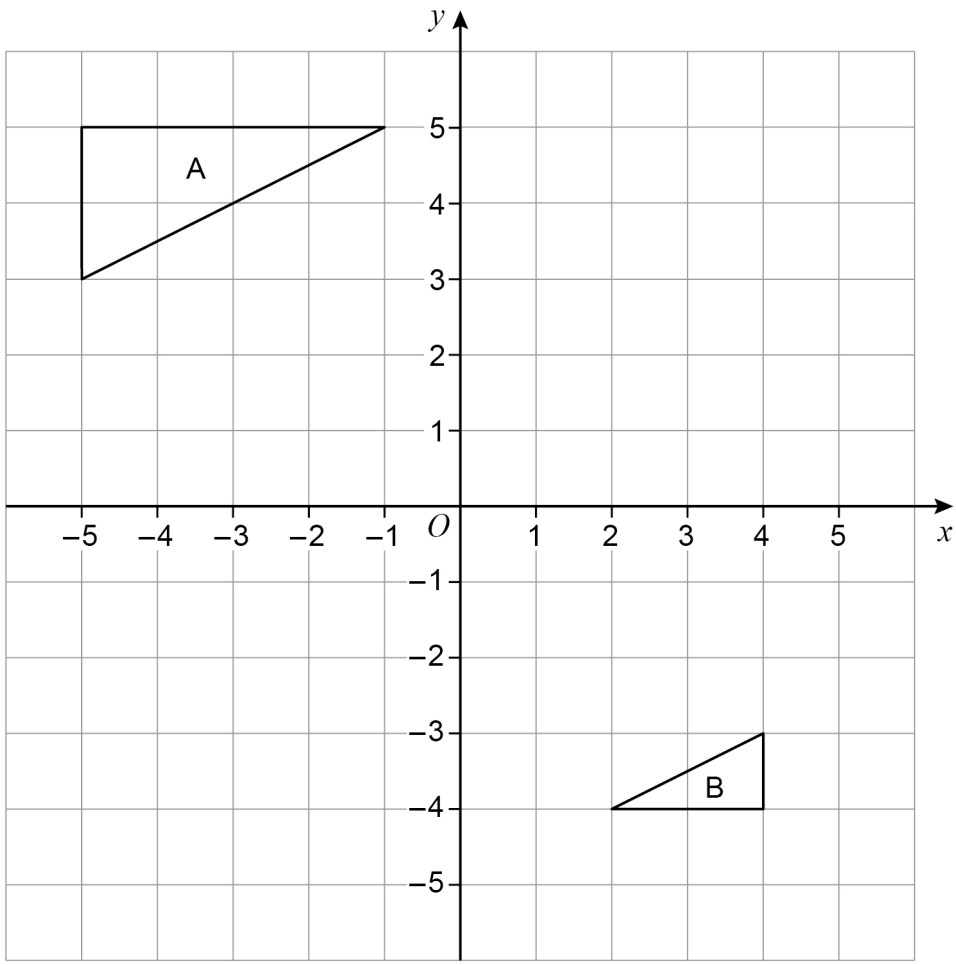
Here is a statement.

> A transformation that maps C to D is a rotation through 90° anticlockwise.

Make **one** criticism of the statement.

[1 mark]

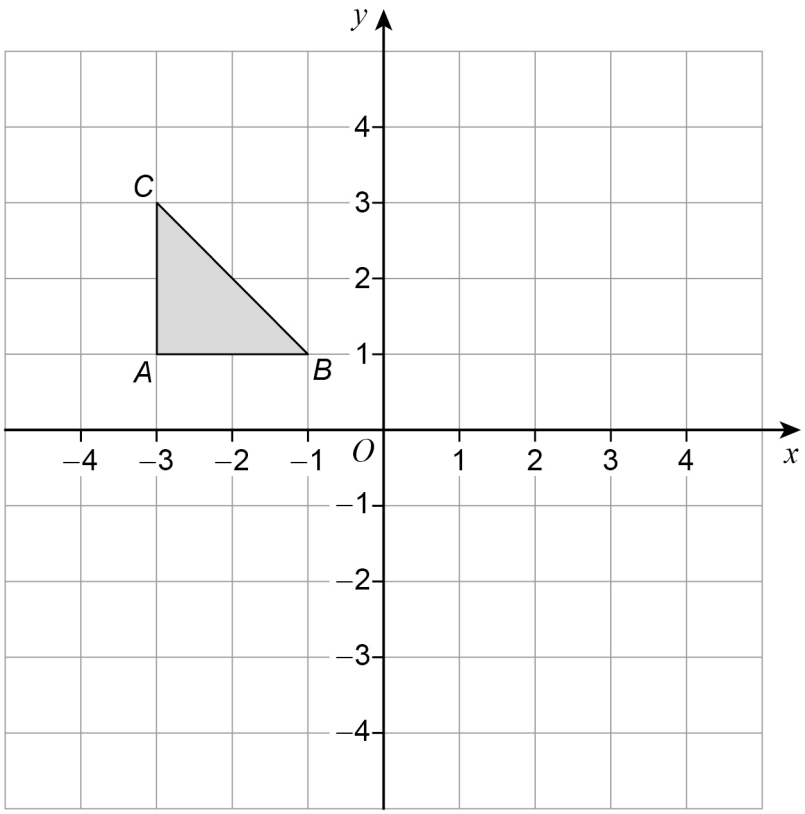
2 Shape A and shape B are shown on the grid.



Describe the **single** transformation that maps shape A to shape B.

[3 marks]

3 Here is triangle *ABC* on a grid.



Describe a **single** transformation of the triangle so that

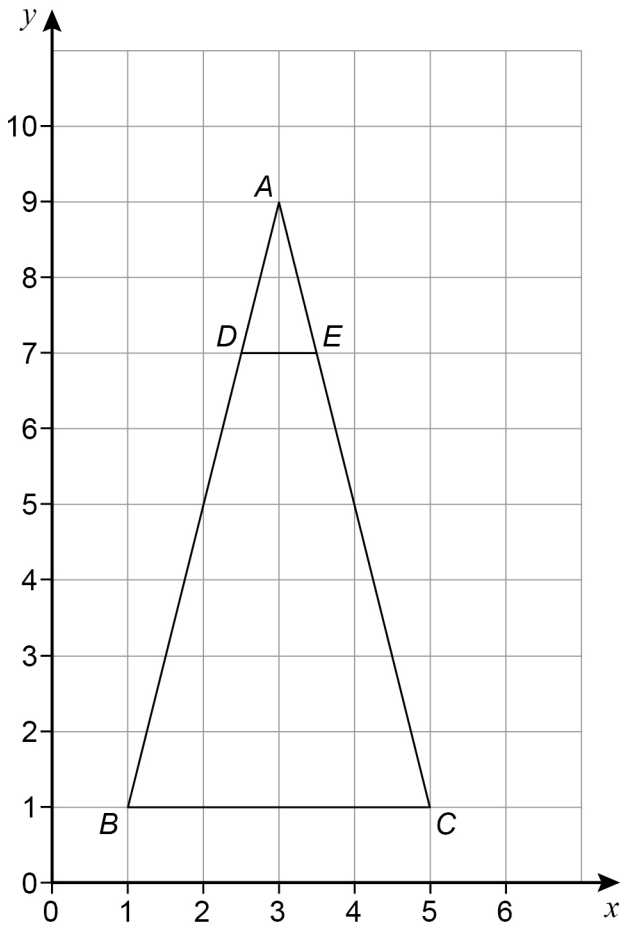
point *B* is invariant

point *A* moves to (1, 1)

point *C* moves to (1, −1)

[3 marks]

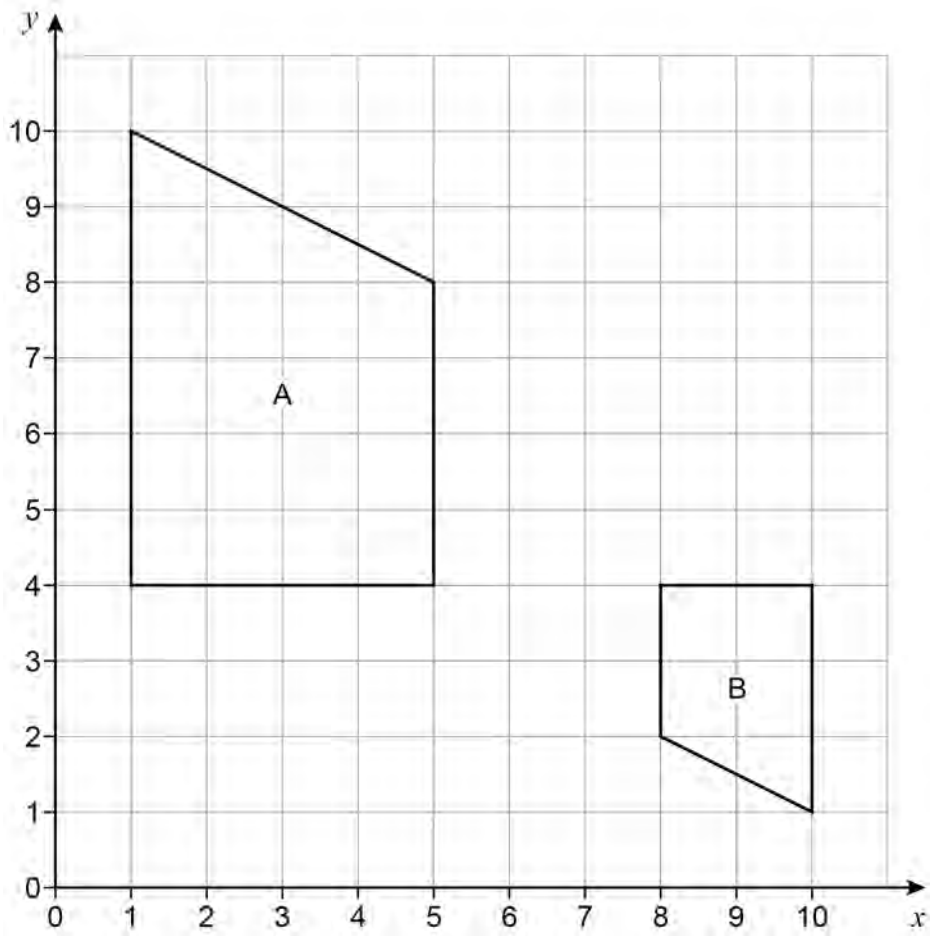
4



Describe fully the **single** transformation that maps triangle *ABC* to triangle *ADE*.

[3 marks]

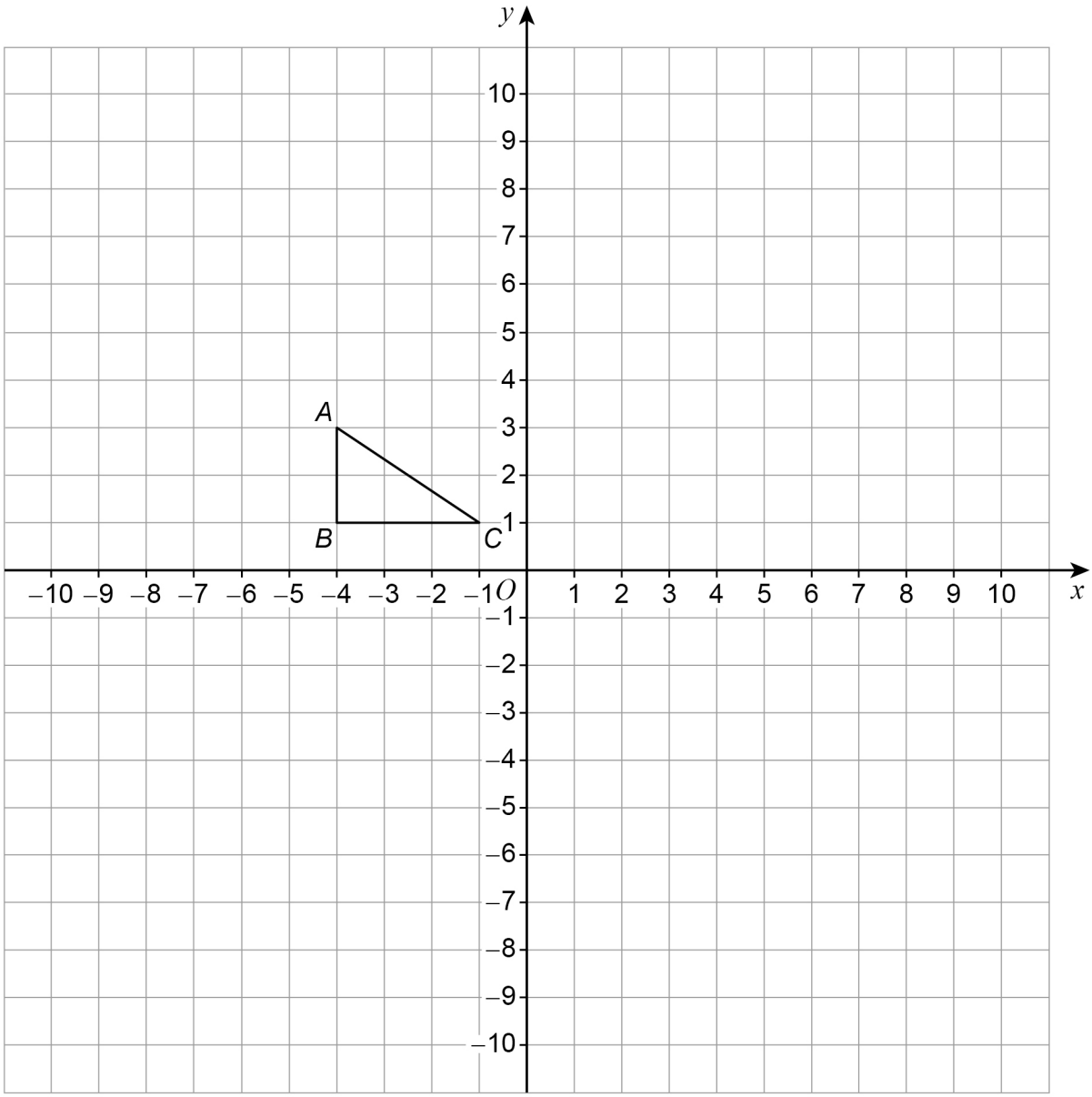
5 Shape A and shape B are shown on the grid.



Describe the **single** transformation that maps shape A to shape B.

[3 marks]

6 Triangle *ABC* is drawn on a grid.



ABC is transformed to *A*'*B*'*C*' by a reflection in the line $x = 1$

A'*B*'*C*' is transformed to *A*''*B*''*C*'' by a rotation 90° anticlockwise about (1, –4)

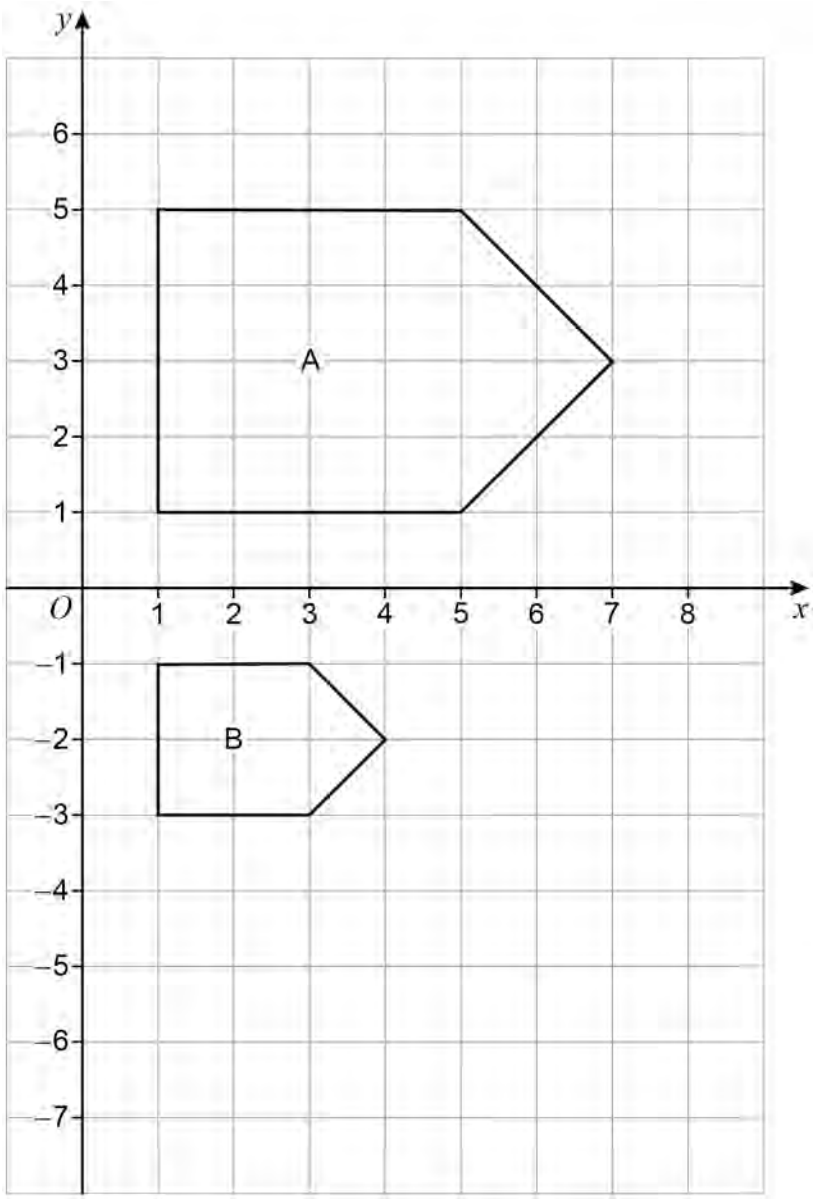
Which **one** point on *ABC* is invariant under the combined transformation?

You **must** show the result of each transformation on the grid.

[4 marks]

Answer _____

7



Describe fully the **single** transformation that maps shape A to shape B.

[3 marks]