

Geometry Assessment

ACMMG181



Name:

Score:

Teacher:



Assessment



Navigator



Student



30 min

Q.1. The point P:(2, 1) is reflected in the x axis. Which one of the following represents the reflection?

- a) (-2, 1) b) (-2, -1) c) (2, -1) d) (1, 2) e) (-1, 2)

Q.2. The point P:(3, 2) is reflected in the y axis. Which one of the following represents the reflection?

- a) (2, 3) b) (-3, 2) c) (3, -2) d) (-2, 3) e) (-2, -3)

Q.3. The point P:(1, 1) is translated +2 units parallel to the x axis. The coordinates of the new point would be:

- a) (2, 2) b) (1, 2) c) (1, 3) d) (3, 1) e) (3, 3)

Q.4. The point P:(1, 1) is translated -3 units parallel to the y axis. The coordinates of the new point would be:

- a) (-1, -2) b) (1, 4) c) (-2, 1) d) (4, 1) e) (1, -2)

Q.5. The point P:(3, 1) is rotated anti-clockwise by 90° . The coordinates of the new point would be:

- a) (-1, 3) b) (1, -3) c) (3, -1) d) (-3, 1) e) (-3, -1)

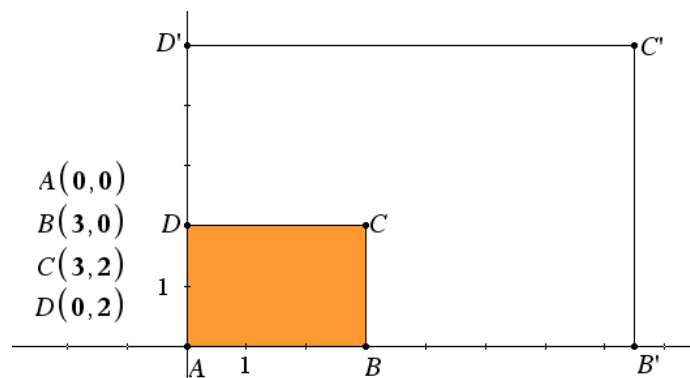
Q.6. The point P:(4, 5) is rotated by 180° . The coordinates of the new point would be:

- a) (-4, -5) b) (-4, 5) c) (4, -5) d) (-5, -4) e) (5, 4)

Q.7. The rectangle shown is dilated by a factor of 2.5 from the origin.

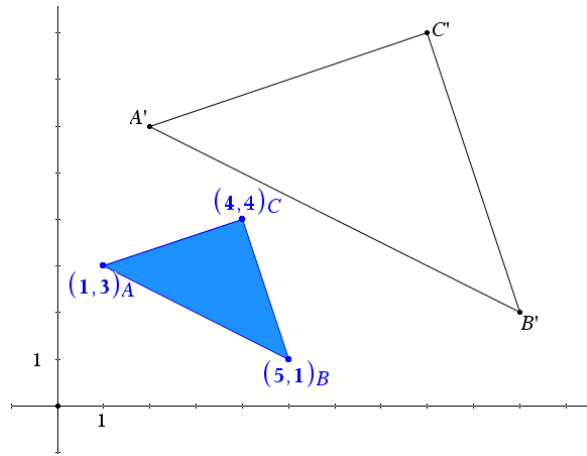
Write down the coordinates of each point:

A' , B' , C' and D'



Answer: $A' = (0, 0)$; $B' = (7.5, 0)$; $C' = (7.5, 5)$; $D' = (0, 5)$

- Q.8. The triangle shown is dilated by a factor of 2 from the origin.
Write down the coordinates of each point:
 A' , B' , and C'



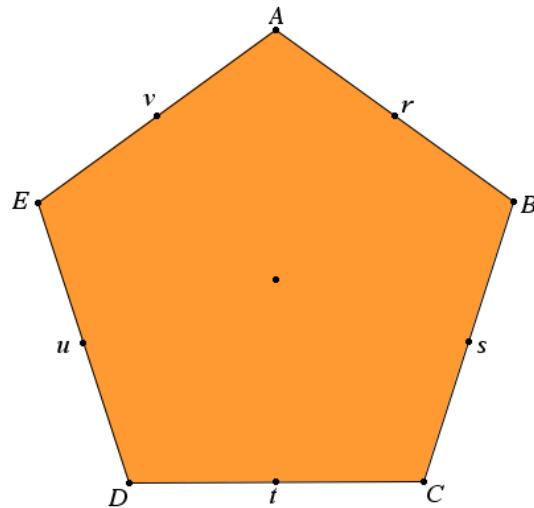
Answer: $A' = (2, 6)$; $B' = (10, 2)$; $C' = (8, 8)$

- Q.9. ABCDE is a regular pentagon, r, s, t, u and v are midpoints on each side.

Identify each of the lines of symmetry for this regular pentagon.

Example:

\overline{Et} represents the line from E to t .



Answer: \overline{At} , \overline{Bu} , \overline{Cv} , \overline{Dr} , \overline{Es} .

- Q.10. How many axes of symmetry exists for a regular dodecagon (12 sided) figure?

a) 3 b) 6 c) 12 d) 18 e) 24