

Space Assessment

AC9M7SP03



Name:



Assessment



Navigator



Student



30 min

Score:

Teacher:

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) $(2, 1)$ 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) $(-3, -1)$

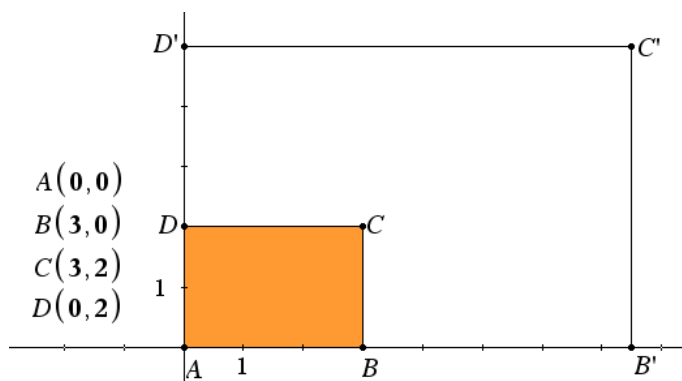
Q.6. The point $P(4, 5)$ is rotated by 180° . The coordinates of the new point would be:

- 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'

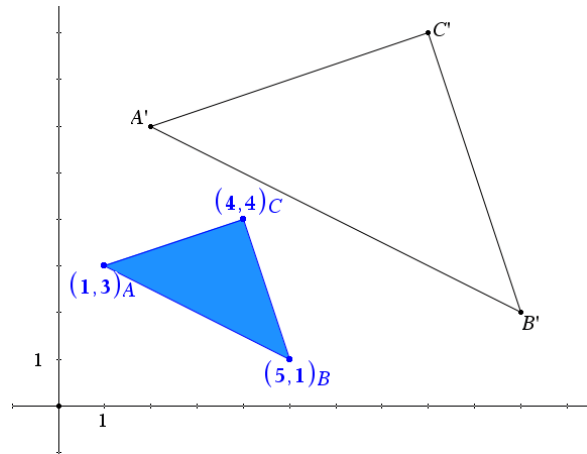


Answer:

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'



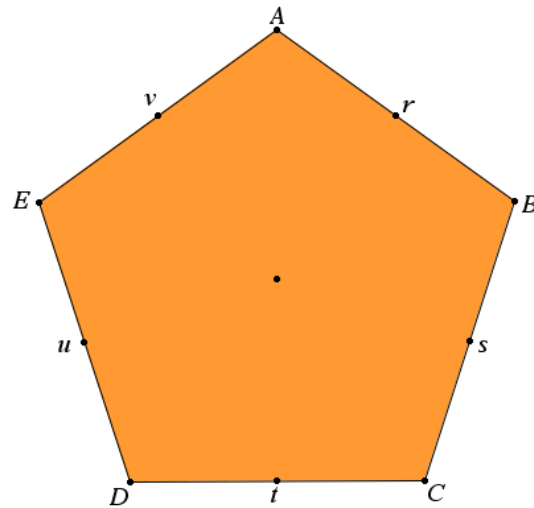
Answer:

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:

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