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, 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:

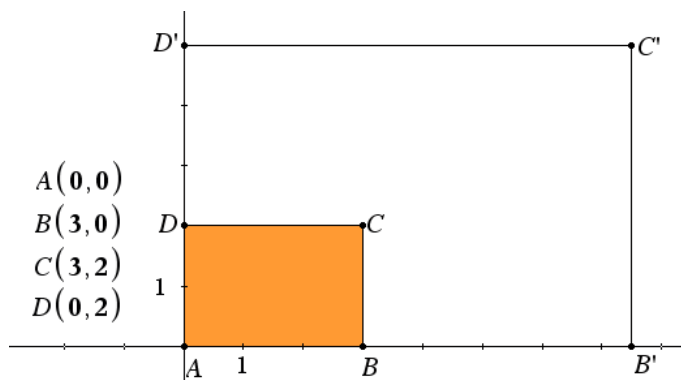   a) (-1, 3)   b) (1, -3)   c) (3, -1)   d) (-3, 1)   e) (-3, -1)

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.
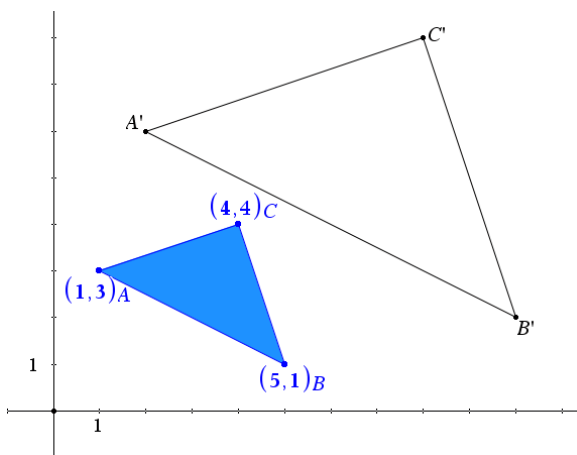
Write down the coordinates of each point:

A', B', C' and D'

$A(0,0)$
$B(3,0)$
$C(3,2)$
$D(0,2)$

Answer:

Author: P. Fox

TEXAS INSTRUMENTS

Q.8. The triangle shown is dilated by a factor of 2 from the origin.

Write down the coordinates of each point:
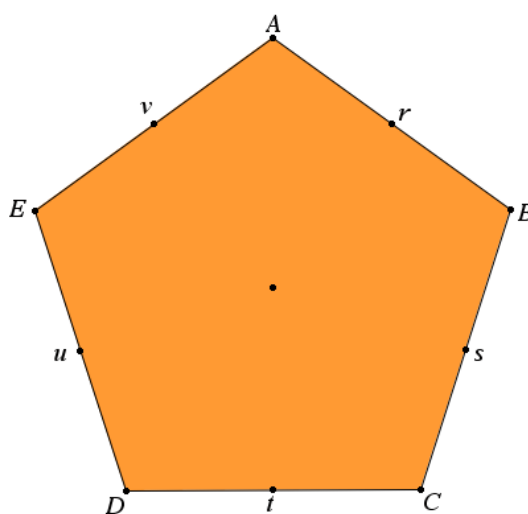
A', B', and C'

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

TEXAS INSTRUMENTS