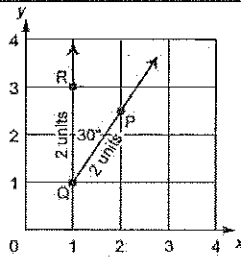


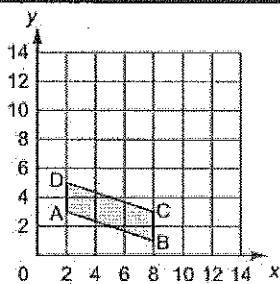
Which transformation moves Figure 1 to Figure 2?

- A) dilation
- B) rotation
- C) reflection
- D) translation



A translation of angle PQR 6 units down and 3 units to the right results in angle P'Q'R'. What is the length of segment Q'P'?

- A) 2 units
- B) 3 units
- C) 6 units
- D) 30 units



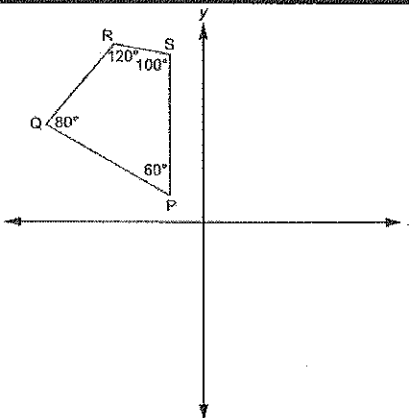
Zane translated the parallelogram up 5 units. Which coordinate grid shows the transformation?

A.

B.

C.

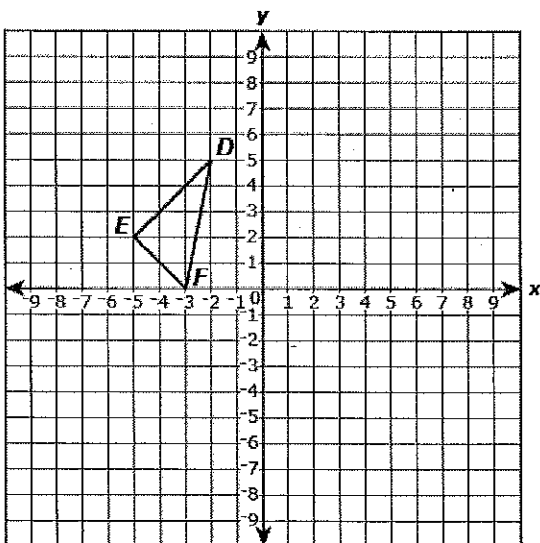
D.



If quadrilateral PQRS will be rotated 90 degrees clockwise about the origin resulting in quadrilateral P'Q'R'S'. Which statement is true?

- A) RS will be parallel to R'S'
- B) SP will be parallel to R'S'
- C) The measure of angle P' will be 80 degrees
- D) The measure of angle Q' will be 80 degrees

Triangle DEF is translated 1 unit down and 6 units to the right. It is then rotated 180 degrees about the origin to create a new triangle D'E'F'.



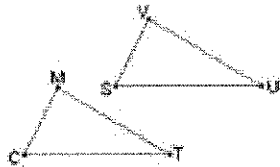
Part A: Liam says that the distance in units between the original point D and the original point E is greater than the corresponding distance of the new triangle, line D'E'. Is Liam correct? Explain.

The resulting image is congruent to the original, so corresponding lengths are equal.

Part B: If angle D has a measure of 45 degrees. What is the measure of D'?

45°

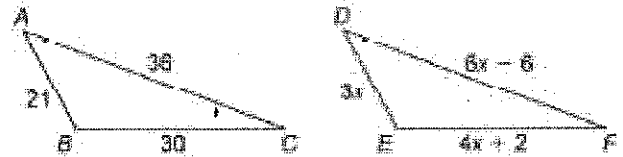
The triangles shown below are congruent.



Which two sides must be proportional?

- (A.) CM and SV
- (B.) CM and MT
- (C.) CT and VU
- (D.) CT and MT

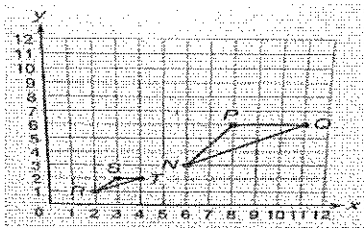
Triangle ABC is translated to create triangle DEF.



What is the value of x ?

- A. 5
- (B.) 7
- C. 30
- D. 36

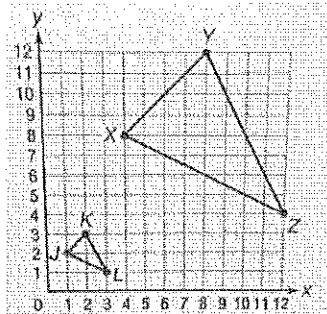
Triangle RST is the result of a dilation of $\triangle NPQ$ with the center of dilation at the origin and a scale factor of $1/3$.



Which of the following must be true?

- (A.) $\angle N$ is congruent to $\angle R$
- B. $\angle N$ is congruent to $\angle S$
- C. $\angle P$ is congruent to $\angle R$
- D. $\angle P$ is congruent to $\angle T$

Triangle XYZ is the result of a dilation of $\triangle JKL$ with the center of dilation at the origin and a scale factor of 4.



Which is NOT true of the triangles in the diagram?

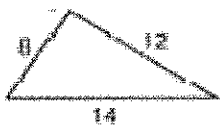
- A. $\triangle XYZ$ is similar to $\triangle JKL$ because a dilated image is similar to the original figure.
- B. The ratio of JK/XY is equivalent to the ratio of KL/YZ .
- C. $m\angle J = m\angle X$
- (D.) $JL = XZ$

Which names a pair of corresponding, congruent angles?

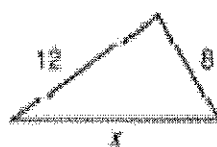
- A. $\angle L$ is congruent to $\angle X$
- B. $\angle L$ is congruent to $\angle Y$
- C. $\angle K$ is congruent to $\angle X$
- (D.) $\angle K$ is congruent to $\angle Y$

Triangle B is a reflection and translation of triangle A.

Triangle A



Triangle B



What is the length of x ?

- A. 12
- (B.) 14
- C. 16
- D. 28