

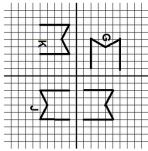
Which of the four triangles was formed by a rotation of triangle PQR 180 degrees about the origin?

d c M

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ExamView

Which of the images was formed by a reflection of the letter M located in quadrant 1?



d none of the other choices



The figure shows a pair of parallel lines on a coordinate grid:



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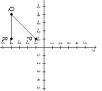
The line segments are translated 4 units to the left to form $\rm E'F'$ and $\rm G'H'.$ Which statement describes $\rm E'F'$ and $\rm G'H'?$

- a. Line segments ET and G'H' intersect at (-4, 0) and are four times farther apart than EF and GH.
 b. Line segments ET and G'H' intersect at (0, -4) and are four times farther apart than EF and GH.
 c. Line segments ET and G'H' do not intersect and are the same distance apart as EF and GH.
 d. Line segments ET and G'H' do not intersect and are closer together than EF and GH.

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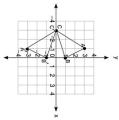
Angle PQR is formed by segments PQ and QR on the following coordinate grid:



Angle PQR is rotated 90 degrees counterclockwise about the origin to form angle P'Q'R'. Which statement shows the measure of angle P'Q'R'?

- a. $m\angle P'Q'R' = 2 \cdot m\angle PQR$ b. $m\angle P'Q'R' = m\angle PQR$
- c. m/P'Q'R' = 180 degreesd. m/P'Q'R' = 90 degrees

Triangle ABC is transformed to triangle A'B'C', as shown below:



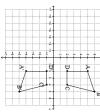
angles of the two triangles? Which equation shows the correct relationship between the measures of the

- a. $m\angle CAB = m\angle C'A'B'$ b. $m\angle BCA = m\angle C'A'B'$
- c. $m\angle CAB = m\angle C'B'A'$ d. $m\angle BCA = m\angle A'B'C'$

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ExamView

Figure ABCD is transformed to figure A'B'CD', as shown:



Which of the following sequences of transformations is used to obtain figure AB'CD' from figure ABCD?

- Counterclockwise rotation by 270 degrees about the origin followed by a translation to the right by 1 unit
 Clockwise rotation by 90 degrees about the origin followed by a translation to
- the left by 1 unit
- c. Reflection about the x-axis followed by a translation to the up by 1 unit d. Reflection about the y-axis followed by a translation to the right by 1 unit

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Polygons LMNO and L'M'N'O' are shown on the following coordinate grid:



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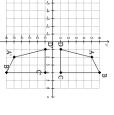
What set of transformations is performed on LMNO to form L'M'NO'?

- a. A 90-degree clockwise rotation about the origin followed by a translation 1 unit to the left
- A translation 1 unit to the right followed by a 270-degree clockwise rotation about the origin
- A translation 1 unit to the left followed by a 90-degree counterclockwise rotation about the origin
 A 270-degree clockwise rotation about the origin followed by a translation 1
- unit to the right

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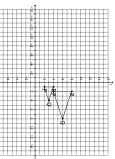
Figure ABCD is transformed to figure A'B'C'D', as shown:



Which of the following statements best describes the relationship of the two

- a. Figure ABCD is smaller than figure A'B'C'D'.
 b. The measure of angle A is equal to the measure of angle D.
 c. Figure ABCD is congruent to figure A'B'C'D.
 d. The measure of angle C is equal to the measure of angle B.

nangle PQR is transf ormed to similar triangle P'Q'R'.



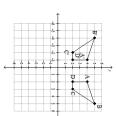
What is the scale factor of dilation?

c 1 d 2

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ExamView

Which statement is true about the transformation of figure ABCD to figure ABCD , as shown:

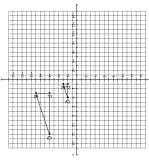


- Reflection about the y-axis followed by a translation to the right by 1 unit Counterclockwise rotation by 270 degrees about the origin followed by a translation to the right by 1 unit Reflection about the x-axis followed by a translation to the up by 1 unit Clockwise rotation by 90 degrees about the origin followed by a translation to the right by 1 unit

ExamView

Triangle PQR is transformed to similar triangle P'Q'R'.

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What transformation was performed on PQR to form P'Q'R'?

 A dilation factor of 4 b. A dilation factor of $\frac{1}{3}$

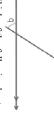
A dilation factor of 3

A dilation factor of ¹/₅

ExamView

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A pair of parallel lines is cut by a transversal, as shown:

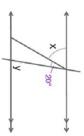


Which of the following best represents the relationship of angles p and q?

a. $m\angle q = 180 \text{ degrees} - m\angle p$ b. $m\angle p = m\angle q$

c. $m\angle p = 2(m\angle q)$ d. $m\angle p = 180 \text{ degrees} - m\angle q$

A pair of parallel is cut by a transversal. y = 84 degrees.



How many degrees is x?

- 48 degrees
- b. 84 degrees

c. 104 degreesd. 64 degrees

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The figure shows two parallel lines AB and DE cut by the transversals \overline{AE} and \overline{BD} :



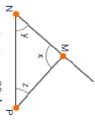
Which statement best explains the relationship between $\triangle ACB$ and $\triangle ECD$?

- $\triangle ACB \cong \triangle ECD$, because m $\angle 3$ = m $\angle 2$ and m $\angle 1$ = m $\angle 6$ $\triangle ACB \sim \triangle ECD$, because m $\angle 3$ = m $\angle 4$ and m $\angle 1$ = m $\angle 5$ $\triangle ACB \sim \triangle ECD$, because m $\angle 3$ = m $\angle 6$ and m $\angle 1$ = m $\angle 4$ $\triangle ACB \cong \triangle ECD$, because m $\angle 3$ = m $\angle 5$ and m $\angle 1$ = m $\angle 2$

ExamView

Which statement is always true for the following picture:

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c. x + z = y

ġ. x + y + z = 180 degrees x + y + z = 90 degrees

d. y + z = x

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The image shown is two similar triangles:



If y = 25 degrees, what is the measure of angle Z and why?

- a. 75 degrees, $\Delta UVW \sim \Delta WXZ$ b. 25 degrees, $\Delta UVW \sim \Delta ZXW$ c. 66 degrees, $\Delta UVW \sim \Delta ZXW$ d. 61 degrees, $\Delta UVW \sim \Delta WXZ$