

Quiz: Transformation & Translation

Section: Transformation & Translation

Sub-section: Transformation & Translation

Choose the correct answer.

1. Which of the following are transformations?

(Remember, MA 2.2 G 8/3)

- A. Reflection B. Translation C. Rotation D. All of the above

Solution: All of the above

Translation, reflection, and rotation are the transformations.

2. Which of the following is correct about transformation?

(Remember, MA 2.2 G 8/3)

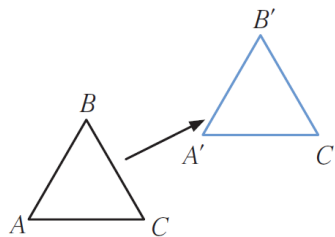
- A. The original figure is called Image.
B. The original figure is called Preimage.
C. The resulting transformation figure is called Preimage.
D. Translation is not one type of transformation.

Solution: The original figure is called Preimage

The *original* figure is called **Preimage** and the *resulting transformation* is called **Image**.

3. Which type of transformation maps $\triangle ABC$ to $\triangle A'B'C'$?

(Understand, MA 2.2 G 8/3)



- A. Reflection B. Translation C. Rotation D. Not here

Solution: Translation

Translation (or slide) is a transformation in which all points of the figure move in the same distance and direction.

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4. Find the coordinates of the image when point (2,0) is translated along vector $\langle -3, -1 \rangle$.

(Understand, MA 2.2 G 8/3)

A.(5,1)

B.(1, -1)

C.(-1, -1)

D.(5, -1)

Solution: $(-1, -1)$

$$(2, 0) \rightarrow (2-3, 0-1)$$

So, (2,0) translated along the vector $\langle -3, -1 \rangle$ is $(-1, -1)$.

5. Find the coordinates of the image when point (10,2) is translated along the vector $\langle 10, 4 \rangle$. (Understand, MA 2.2 G 8/3)

A.(20,6)

B.(20, -2)

C.(0, -4)

D.(0, -2)

Solution: $(20, 6)$

$$(10, 2) \rightarrow (10+10, 2+4)$$

So, (10, 2) translated along the vector $\langle 10, 4 \rangle$ is $(20, 6)$.

6. Find the coordinates of the image when point (5,12) is translated 3 units upward. (Understand, MA 2.2 G 8/3)

A.(5, 9)

B.(5, 15)

C.(2, 12)

D.(2, 15)

Solution: $(5, 15)$

$$(5, 12) \rightarrow (5, 12+3)$$

So, (5, 12) translated 3 units upward is $(5, 15)$.

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7. Find the coordinates of the image when point (4,1) is translated 2 units to the right.

(Understand, MA 2.2 G 8/3)

A.(4, -1)

B.(4, 3)

C.(2, 1)

D.(6, 1)

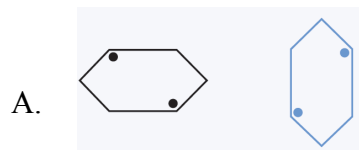
Solution: (6,1)

$$(4,1) \rightarrow (4+2, 1)$$

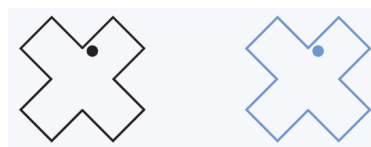
So, (4,1) translated 2 units to the right is (6,1).

8. Which of the following transformations is translation?

(Understand, MA 2.2 G 8/3)



Solution:



Translation (or slide) is a transformation in which all points of the figure move in the same distance and direction.

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