

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)

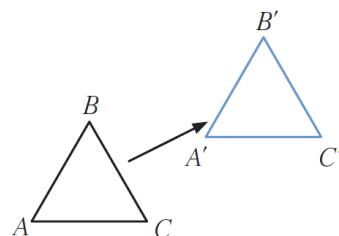
A. The original figure is called Image.
B. The original figure is called Preimage.
C. The resulting transformation figure is called Preimage.
D. Translation is not one type of transformation.

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.

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 $(5, 15)$.

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)

A.



B.



C.



D.



Solution:



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

Quiz: Transformation & Translation

Section: Transformation & Translation

Sub-section: Transformation & Translation

