QUIZ TRANSFORMATION

Mathematics - Mr Arnold

Use the concept of Translation, Reflection, Rotation and Dilatation to solve the following questions.

A. MULTIPLE CHOICE

1 When we move an object by change the size and the position, we use the concept of ....

A. Translation
B. Reflection
C. Rotation
D. Dilatation

2 Point A(3, 5) is moved 3 units to the right and 6 units down, the coordinate of A' is ....

A. (6, 11)
B. (6, -1)
C. (0, 11)
D. (0, -1)

3 Point P(-2, 6) translated by *T(-2, 5)* then retranslated by *T(5, -3)*. The coordinate of P after the second translation is...

A. P"(-5, -4)
B. P"(5, 4)
C. P"(1, 8)
D. P"(-1, 8)

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4 Look at the following picture.

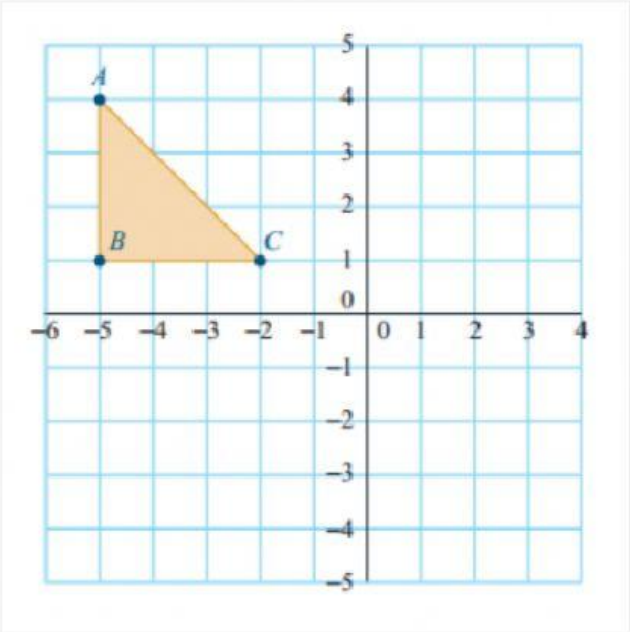
If the triangle reflected by line: y = x, the coordinate of point A is....

A. (5, -4)

B. (4, 5)

C. (-5, 4)

D. (4, -5)



5 Point P(-4, 3) is reflected by x-axes, then translated by T(3, 5), the final image of point P is ....

A. P"(-1, 2)

B. P"(1, -2)

C. P"(1, 2)

D. P"(-1, -2)

6 Point P(-3, -2) reflected by line: y = x then rotated by 180 degree, The final image of point P is....

A. P"(2, -3)

B. P"(2, 3)

C. P"(3, 2)

D. P"(-3, -2)

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7 Point M'''(-5, -6) is the result of reflection by line: y = -x from point M''. Point M'' is the result of Translation by T(3, -1) from point M'. If point M' is the dilatation by D[O, 3] from point M, the coordinate of point M is....

A. M(3, 1)

B. M(2, 3)

C. M(3, 2)

D. M(1, 2)

8 The image of point A(x,y) after dilatated by D[O, 3] is P'(6, -9). The coordinate of point P is....

A. P(-2, 3)

B. P(-2, -3)

C. P(2, -3)

D. P(2, 3)

9 Point A(1, 7) first reflected by y-axes , then dilatated by D[O, 2]. The coordinate of A after the second transformation is...

A. A''(2, 14)

B. A''(-2, 14)

C. A''(2, -14)

D. A''(-2, -14)

10 Point B(3, y) translated by *T(x, 4)*. The result of the translation is B'(5, -1). The value of xy = ...

A. 10

B. -10

C. 20

D. -20

LIVEWORKSHEETS