

NAME: _____

P.I. G.G.54: Define, investigate, justify, and apply isometries in the plane (reflections)

1. A point P has coordinates $(-4, 7)$. What are its new coordinates after reflecting point P in the x -axis?

[A] $(-4, -7)$ [B] $(-4, 7)$
[C] $(4, -7)$ [D] $(4, 7)$

2. A point P has coordinates $(-1, -8)$. What are its new coordinates after reflecting point P in the y -axis?

[A] $(1, 8)$ [B] $(1, -8)$
[C] $(-1, 8)$ [D] $(-1, -8)$

3. A point P has coordinates $(2, -3)$. What are its new coordinates after reflecting point P in the y -axis?

[A] $(2, -3)$ [B] $(2, 3)$
[C] $(-2, -3)$ [D] $(-2, 3)$

4. A point P has coordinates $(5, -6)$. What are its new coordinates after reflecting point P in the x -axis?

[A] $(5, -6)$ [B] $(-5, -6)$
[C] $(5, 6)$ [D] $(-5, 6)$

5. A point P has coordinates $(-2, 7)$. What are its new coordinates after reflecting point P in the x -axis?

[A] $(2, -7)$ [B] $(-2, 7)$
[C] $(-2, -7)$ [D] $(2, 7)$

6. What are the coordinates of the reflection image of $P(7, 3)$ in the y -axis?

7. What are the coordinates of the reflection image of $P(-6, 2)$ in the y -axis?

8. What are the coordinates of the reflection image of $P(-5, -6)$ in the x -axis?

9. What are the coordinates of the reflection image of $P(-8, -1)$ in the x -axis?

10. What are the coordinates of the reflection image of $P(-2, -5)$ in the y -axis?

[1] A

[2] B

[3] C

[4] C

[5] C

[6] $(-7, 3)$

[7] $(6, 2)$

[8] $(-5, 6)$

[9] $(-8, 1)$

[10] $(2, -5)$