

G.CO.A.5: Reflections 1b

- 1 Point A is located at $(4, -7)$. The point is reflected in the x -axis. Its image is located at
- 2 When the point $(2, -5)$ is reflected in the x -axis, what are the coordinates of its image?
- 3 What is the image of point $(-3, 7)$ after a reflection in the x -axis?
- 4 What are the coordinates of point $(2, -3)$ after it is reflected over the x -axis?
- 5 Point $(-2, 3)$ is reflected in the x -axis. In which quadrant does its image lie?
- 6 Reflecting $(5, 1)$ in the y -axis yields an image of
- 7 The image of point $(3, 4)$ when reflected in the y -axis is
- 8 What is the image of the point $(2, -3)$ after the transformation $r_{y\text{-axis}}$?
- 9 What are the coordinates of point P , the image of point $(3, -4)$ after a reflection in the line $y = x$?
- 10 What is the image of $(5, -2)$ under the transformation $r_{y=x}$?
- 11 If the point $(2, -5)$ is reflected in the line $y = x$, then the image is
- 12 The coordinates of point A are $(-3a, 4b)$. If point A' is the image of point A reflected over the line $y = x$, the coordinates of A' are
- 13 What is the image of point $(-3, -1)$ under a reflection in the origin?
- 14 The point $(-3, -2)$ is reflected in the origin. The coordinates of its image are
- 15 A function, f , is defined by the set $\{(2, 3), (4, 7), (-1, 5)\}$. If f is reflected in the line $y = x$, which point will be in the reflection?
 - 1) $(5, -1)$
 - 2) $(-5, 1)$
 - 3) $(1, -5)$
 - 4) $(-1, 5)$
- 16 Which transformation of the line $x = 3$ results in an image that is perpendicular to the given line?
 - 1) $r_{x\text{-axis}}$
 - 2) $r_{y\text{-axis}}$
 - 3) $r_{y=x}$
 - 4) $r_{x=1}$
- 17 If $M(-2, 8)$ is reflected in the y -axis, what are the coordinates of M' , the image of M ?
- 18 Find the image of $(1, 5)$ when it is reflected over the line $y = x$.
- 19 Find the image of $P(2, -5)$ under the transformation $r_{y=x}$.
- 20 Find the image of $P(4, -2)$ under the transformation $r_{y=x}$.
- 21 Find the coordinates of the image of point $(5, 2)$ after a reflection in the line $y = x$.
- 22 If point P with coordinates (a, b) is reflected in the line $y = x$, what are the coordinates of the image of P ?

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Answer Section

1 ANS:
(4,7)

REF: 060905ge

2 ANS:
(2,5)

REF: 010007a

3 ANS:
(-3,-7)

REF: 010918a

4 ANS:
(2,3)

REF: 080713a

5 ANS:
III

REF: 060825a

6 ANS:
(-5,1)

REF: 019017siii

7 ANS:
(-3,4)

REF: spring9803a

8 ANS:
(-2,-3)

REF: 081108ge

9 ANS:
(-4,3)

REF: 060306b

10 ANS:
(-2,5)

REF: 069628siii

11 ANS:
(-5,2)

REF: 069735siii

12 ANS:
 $(4b, -3a)$

REF: 081113ge

13 ANS:
 $(3, 1)$

REF: 080418a

14 ANS:
 $(3, 2)$

REF: 068824siii

15 ANS: 1

REF: 060710b

16 ANS: 3

REF: 081021ge

17 ANS:
 $(2, 8)$

REF: 089003siii

18 ANS:
 $(5, 1)$

REF: 068005siii

19 ANS:
 $(-5, 2)$

REF: 010405siii

20 ANS:
 $(-2, 4)$

REF: 019809siii

21 ANS:
 $(2, 5)$

REF: 010306siii

22 ANS:
 (b, a)

REF: 068605siii