EduSahara™ Learning Center Assignment

Grade : Class VII, ICSE
Chapter : Symmetry, Reflection and Rotation
Name : Reflection
Licensed To : Teachers and Students for non-commercial use

---

1. Find the image of the point $((-2), 6)$ when reflected in x-axis

   (i) $(2, 6)$ (ii) $((-6),(-2))$ (iii) $(2,(-6))$ (iv) $((-2),(-6))$ (v) $((-1),(-6)$

---

2. Find the image of the point $((-5), 1)$ when reflected in y-axis

   (i) $(6, 1)$ (ii) $(5, 1)$ (iii) $(5,(-1))$ (iv) $(1, 5)$ (v) $((-5),(-1))$

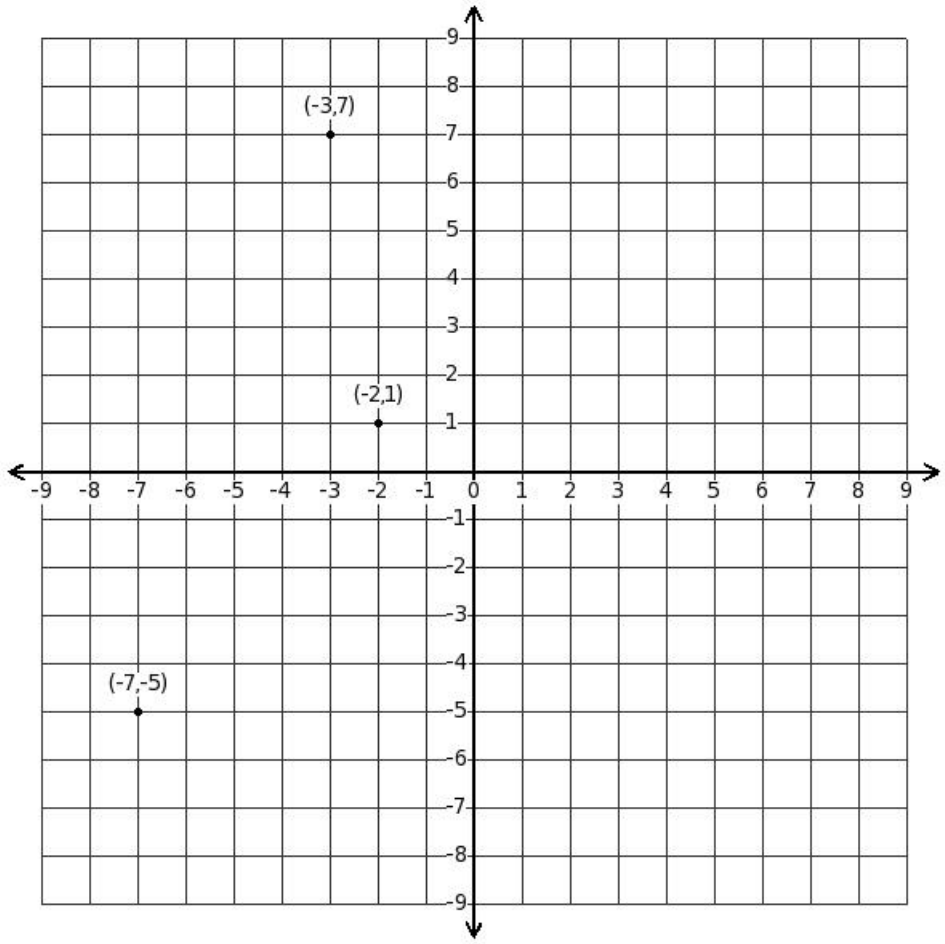
---

3. Find the image of the point $(1,(-4))$ when reflected in the origin

   (i) $(4,(-1))$ (ii) $(0, 4)$ (iii) $((-1),(-4))$ (iv) $(1, 4)$ (v) $((-1), 4)$

---

4. Write down the coordinates when reflected in the x-axis



(i) $((-2),(-1)),((-5),7),((-3),(-7))$

(ii) $((-2),(-1)),((-7),5),((-3),(-7))$

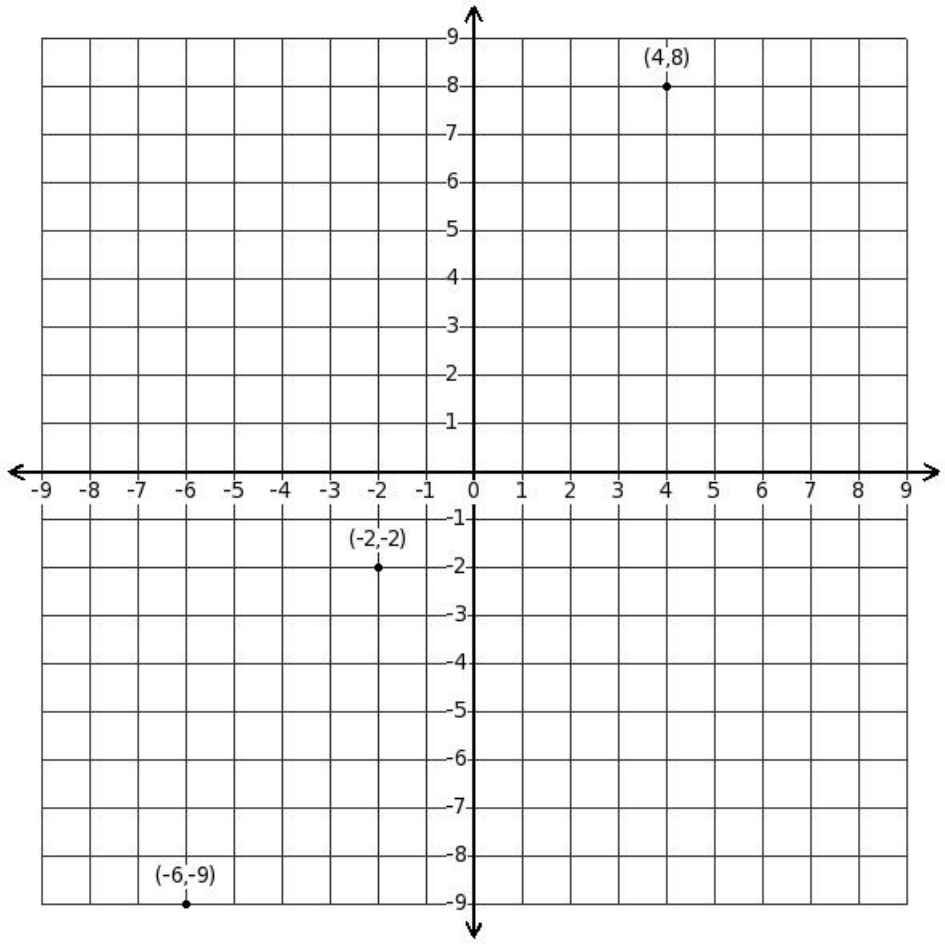
(iii) $((-2),(-1)),((-7),5),((-5),(-9))$

(iv) $((-2),(-1)),((-7),5),((-2),(-8))$

(v) $((-3),0),((-7),5),((-3),(-7))$

---

5. Write down the coordinates when reflected in the y-axis



(i) $(2,(-2)),((-4),8),(7,(-10))$

(ii) $(2,(-2)),((-4),8),(4,(-11))$

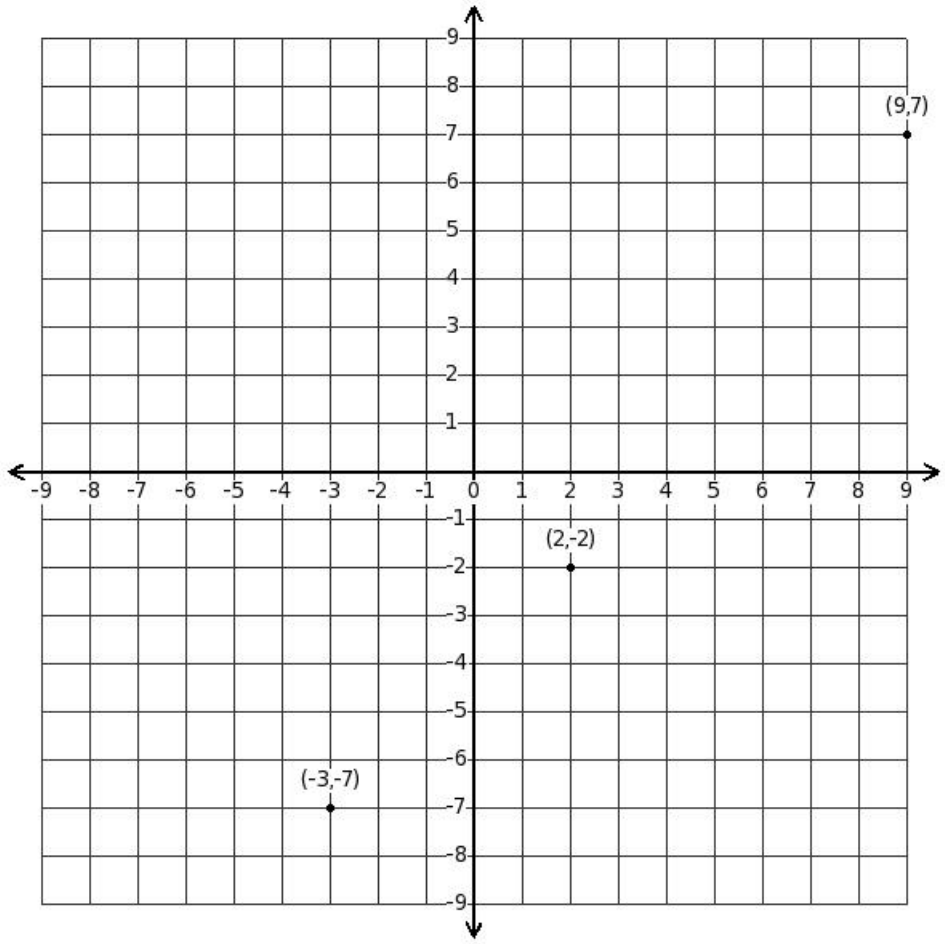
(iii) $(2,(-2)),((-4),8),(6,(-9))$

(iv) $(2,(-2)),((-2),10),(6,(-9))$

(v) $(1,(-1)),((-4),8),(6,(-9))$

---

6. Write down the coordinates when reflected in the origin



(i) $((-2), 2), (5, 9), ((-9), (-7))$

(ii) $((-2), 2), (3, 7), ((-9), (-7))$

(iii) $((-3), 3), (3, 7), ((-9), (-7))$

(iv) $((-2), 2), (3, 7), ((-11), (-9))$

(v) $((-2), 2), (3, 7), ((-8), (-8))$

---

7. Write down the coordinates when reflected in the x-axis

$(0, (-5)), (4, 0), (9, (-8))$

(i) $(0, 5), (6, 2), (9, 8)$

(ii) $(0, 5), (4, 0), (7, 6)$

(iii) $(0, 5), (4, 0), (10, 7)$

(iv) $((-1), 6), (4, 0), (9, 8)$

(v) $(0, 5), (4, 0), (9, 8)$

---

8. Write down the coordinates when reflected in the y-axis

$(8, 7), (2, 3), ((-8), 3)$

(i) $((-8), 7), ((-2), 3), (6, 1)$

(ii) $((-8), 7), ((-2), 3), (9, 2)$

(iii) $((-8), 7), (0, 5), (8, 3)$

(iv) $((-8), 7), ((-2), 3), (8, 3)$

(v) $((-9), 8), ((-2), 3), (8, 3)$

---

9. Write down the coordinates when reflected in the origin

$(8, 6), (1, (-9)), ((-1), (-5))$

(i) $((-8), (-6)), ((-1), 9), (1, 5)$

(ii) $((-8), (-6)), (1, 11), (1, 5)$

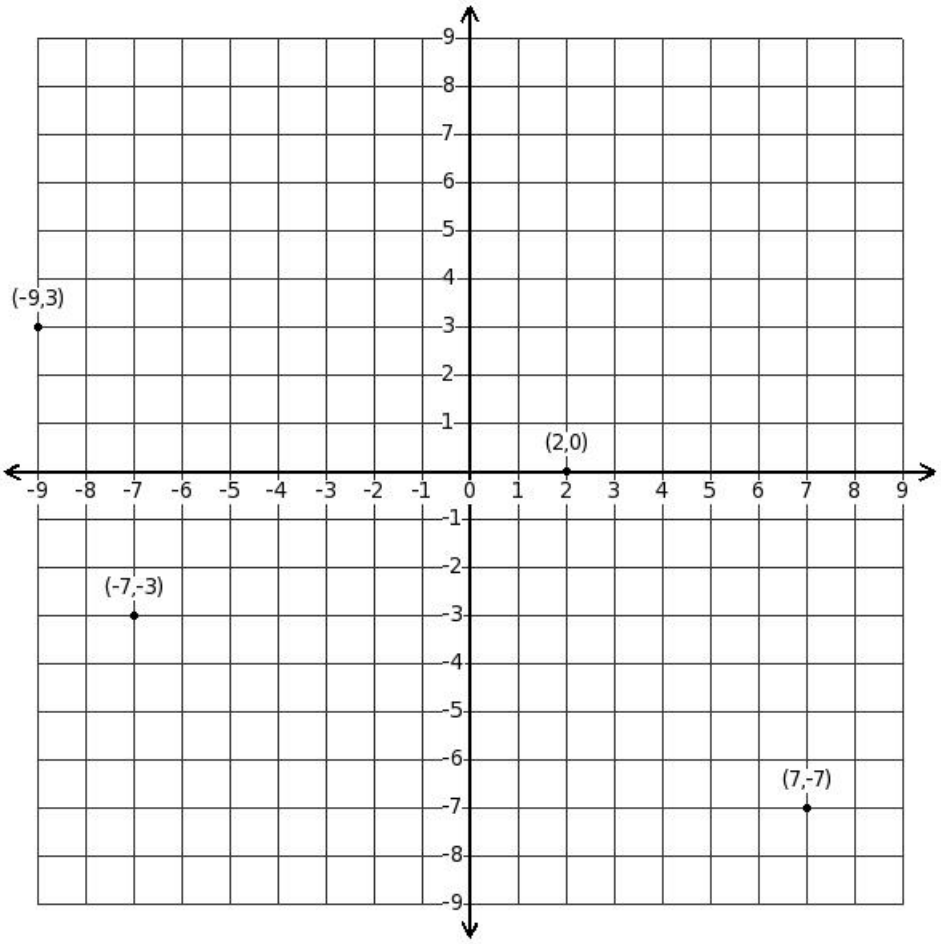
(iii) $((-8), (-6)), ((-1), 9), (2, 4)$

(iv) $((-9), (-5)), ((-1), 9), (1, 5)$

(v) $((-8), (-6)), ((-1), 9), ((-1), 3)$

---

10. Write down the coordinates when reflected in the x-axis



(i) $((-7), 3), ((-9), (-3)), (8, 6), (2, 0)$

(ii) $((-7), 3), ((-9), (-3)), (7, 7), (1, 1)$

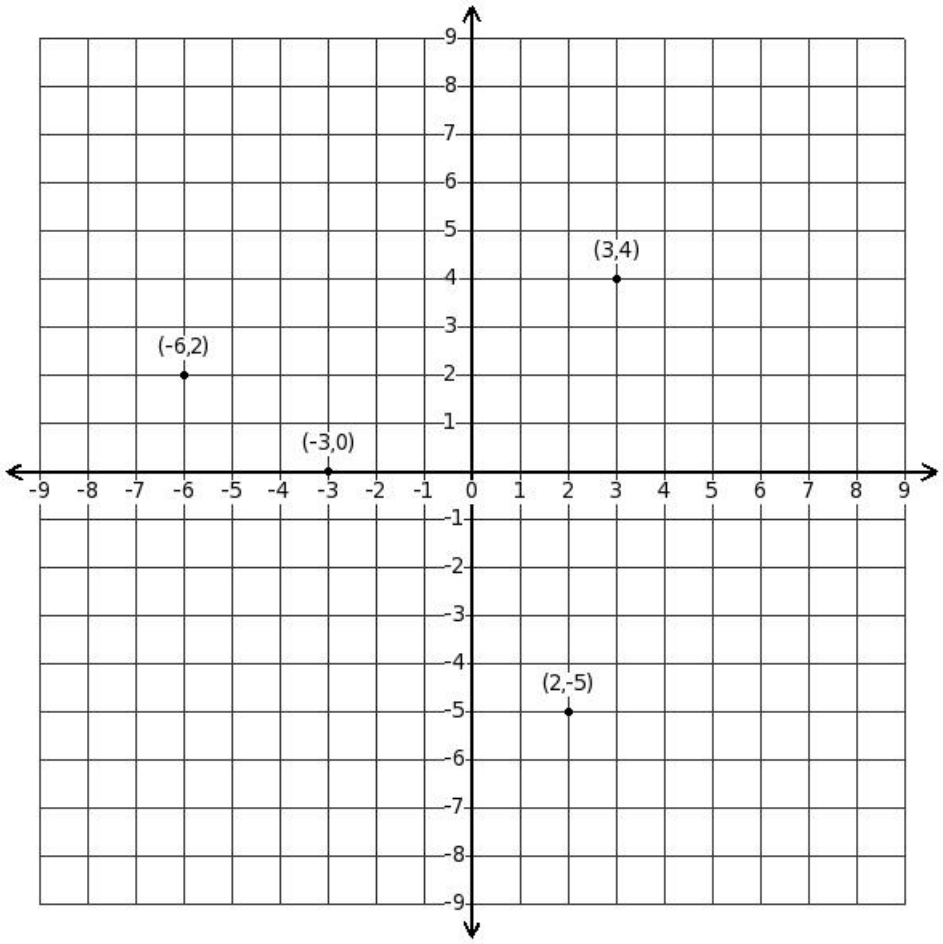
(iii) $((-7), 3), ((-9), (-3)), (7, 7), (2, 0)$

(iv) $((-7), 3), ((-9), (-3)), (5, 5), (2, 0)$

(v) $((-5), 5), ((-9), (-3)), (7, 7), (2, 0)$

---

11. Write down the coordinates when reflected in the y-axis



(i) $((-3), 4), (3, 0), (6, 2), ((-2), (-5))$

(ii) $((-3), 4), (3, 0), (7, 1), ((-2), (-5))$

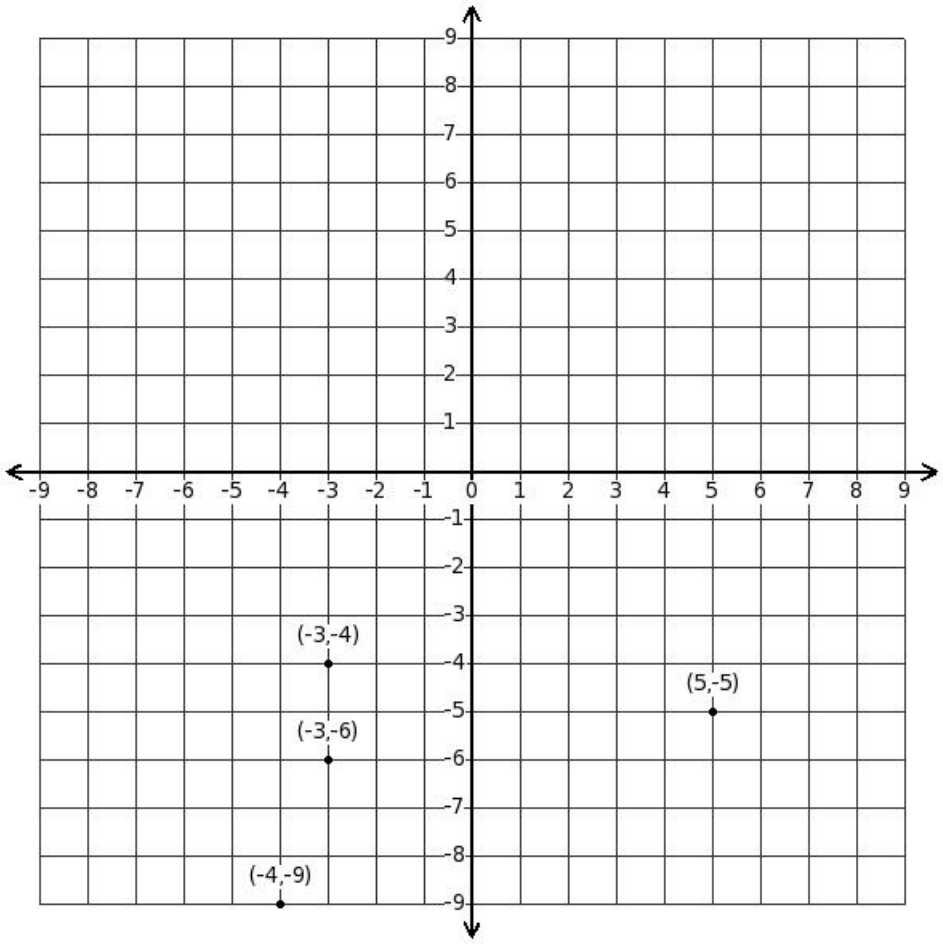
(iii) $((-1), 6), (3, 0), (6, 2), ((-2), (-5))$

(iv) $((-3), 4), (3, 0), (6, 2), ((-3), (-4))$

(v) $((-3), 4), (3, 0), (4, 0), ((-2), (-5))$

---

12. Write down the coordinates when reflected in the origin



(i) $(4, 9), (3, 4), ((-7), 3), (3, 6)$

(ii) $(4, 9), (3, 4), ((-5), 5), (2, 7)$

(iii) $(6, 11), (3, 4), ((-5), 5), (3, 6)$

(iv) $(4, 9), (3, 4), ((-4), 4), (3, 6)$

(v) $(4, 9), (3, 4), ((-5), 5), (3, 6)$

---

13. Write down the coordinates when reflected in the x-axis

$(9, 9), (3, (-4)), (6, (-1)), ((-9), 6)$

(i) $(9, (-9)), (3, 4), (4, (-1)), ((-9), (-6))$

(ii) $(9, (-9)), (3, 4), (7, 0), ((-9), (-6))$

(iii) $(9, (-9)), (3, 4), (6, 1), ((-9), (-6))$

(iv) $(9, (-9)), (3, 4), (6, 1), ((-10), (-5))$

(v) $(11, (-7)), (3, 4), (6, 1), ((-9), (-6))$

---

14. Write down the coordinates when reflected in the y-axis

$((-4), 2), (2, 0), (2, (-2)), (3, 5)$

(i) $(4, 2), ((-2), 0), ((-1), (-3)), ((-3), 5)$

(ii) $(4, 2), ((-2), 0), ((-4), (-4)), ((-3), 5)$

(iii) $(4, 2), ((-2), 0), ((-2), (-2)), ((-3), 5)$

(iv) $(6, 4), ((-2), 0), ((-2), (-2)), ((-3), 5)$

(v) $(4, 2), ((-2), 0), ((-2), (-2)), ((-4), 6)$

---

15. Write down the coordinates when reflected in the origin

$((-5), 3), ((-1), 6), (9, (-6)), (2, 8)$

(i) $(7, (-1)), (1, (-6)), ((-9), 6), ((-2), (-8))$

(ii) $(5, (-3)), (1, (-6)), ((-9), 6), ((-2), (-8))$

(iii) $(5, (-3)), (1, (-6)), ((-9), 6), ((-3), (-7))$

(iv) $(5, (-3)), (1, (-6)), ((-11), 4), ((-2), (-8))$

(v) $(5, (-3)), (1, (-6)), ((-8), 5), ((-2), (-8))$

---

16. Which of the following points is invariant under reflection in x-axis

(i) $((-8), (-1))$ (ii) $(1, (-7))$ (iii) $((-6), 0)$ (iv) $(5, 8)$ (v) $((-9), 9)$

---

17. Which of the following points is invariant under reflection in y-axis

(i) $(4, 7)$ (ii) $(0, 4)$ (iii) $((-5), 1)$ (iv) $(9, (-5))$ (v) $((-8), (-1))$

---

18. Find the image of the point A $((-5), 3)$ under the reflection of a point P $((-\frac{11}{2}), 4)$

(i) $((-4), 7)$ (ii) $((-8), 3)$ (iii) $((-6), 5)$ (iv) $((-5), 4)$ (v) $((-7), 6)$

Assignment Key

1) (iv)
2) (ii)
3) (v)
4) (ii)
5) (iii)
6) (ii)
7) (v)
8) (iv)
9) (i)
10) (iii)
11) (i)
12) (v)
13) (iii)
14) (iii)
15) (ii)
16) (iii)
17) (ii)
18) (iii)