EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Reflection

Grade : ICSE Grade X

1. Write down the coordinates when reflected in the origin $((-3),0),(9,2),((-8),5)$

   (i) $(3,0),((-9),(-2)),(6,(-7))$ (ii) $(3,0),((-7),0),(8,(-5))$ (iii) $(2,1),((-9),(-2)),(8,(-5))$

   (iv) $(3,0),((-9),(-2)),(9,(-6))$ (v) $(3,0),((-9),(-2)),(8,(-5))$

2. If point P(x,y) lies in the third quadrant, then

   (i) x is positive and y is positive (ii) x is negative and y is negative (iii) x is negative and y is positive

   (iv) x is positive and y is negative

3. The point $(2,2)$ lies in

   (i) second quadrant (ii) first quadrant (iii) third quadrant (iv) fourth quadrant

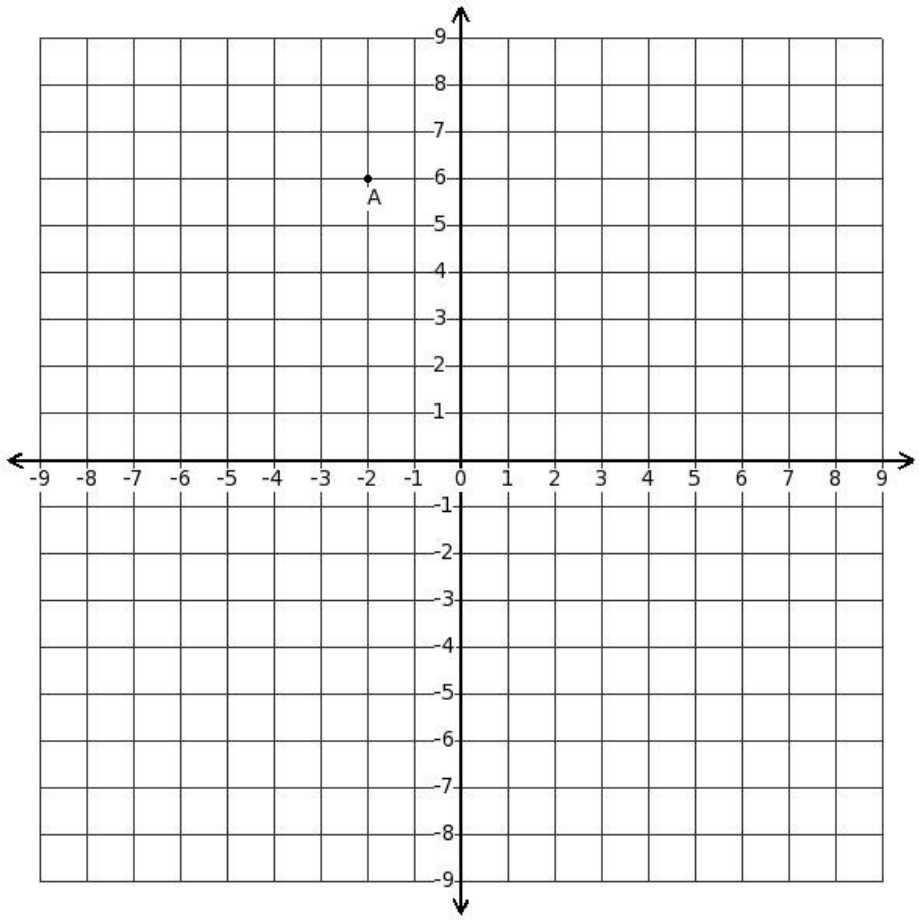
4. The point $(2,(-9))$ lies in

   (i) second quadrant (ii) fourth quadrant (iii) first quadrant (iv) third quadrant

5. The coordinates of a point which is 3 units away from x-axis and 2 units away from y-axis in the third quadrant is

   (i) $(2,3)$ (ii) $((-3),(-2))$ (iii) $((-2),(-3))$ (iv) $((-2),3)$ (v) $(2,(-3))$

6. Determine the coordinates of point A in the diagram.



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

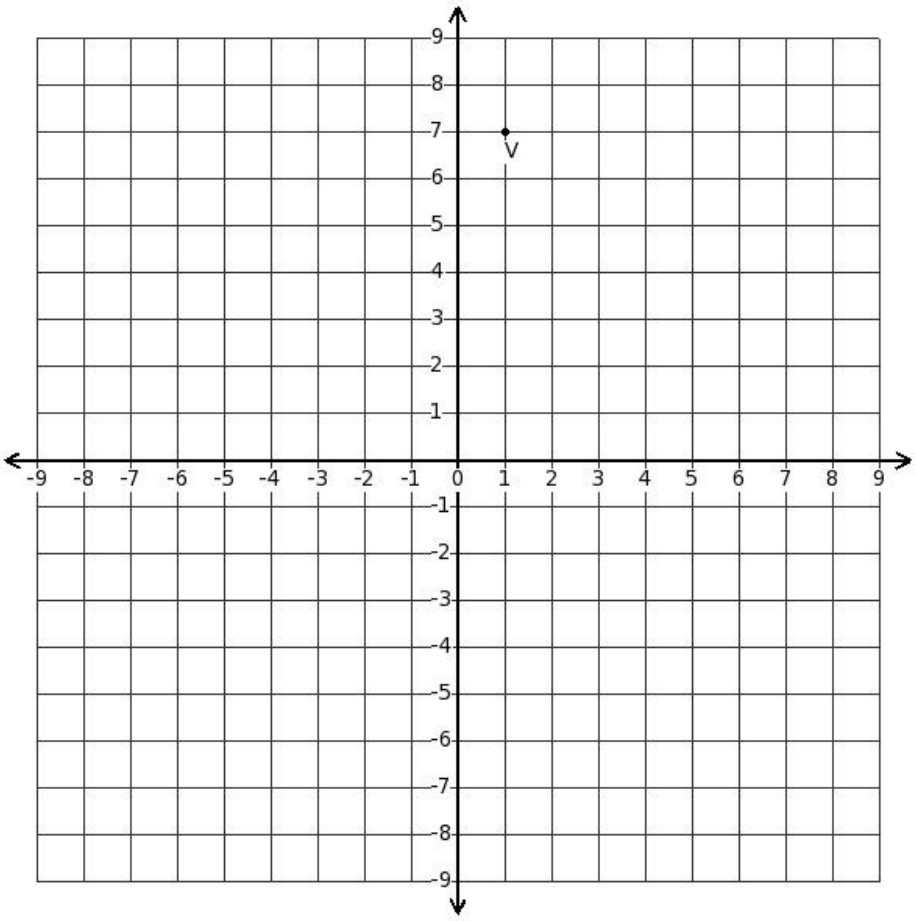
7. The point $((-2),5)$ lies in

(i) second quadrant (ii) third quadrant (iii) first quadrant (iv) fourth quadrant

8. The equation of x-axis is

(i) $x=0$ (ii) $x=1$ (iii) $y=1$ (iv) $y=x$ (v) $y=0$

9. Determine the coordinates of point V in the diagram.



(i) $(7,1)$ (ii) $(1,(-7))$ (iii) $((-1),(-7))$ (iv) $((-1),7)$ (v) $(1,7)$

10. The y-coordinate of a point is also called as

(i) origin (ii) x-axis (iii) y-axis (iv) ordinate (v) abscissa

11. Find the image of the point $(4,6)$ when reflected in x-axis

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

12. Find the coordinates of the reflection of the point $((-2),4)$ in line $(-9x+63)=0$

(i) $(16,4)$ (ii) $(17,3)$ (iii) $(18,6)$ (iv) $(15,5)$ (v) $(14,2)$

13. The point $((-2),(-4))$ lies in

(i) fourth quadrant (ii) third quadrant (iii) second quadrant (iv) first quadrant

14. Equation of a straight line which is parallel to x-axis (where k is a constant) is

(i) $y=0$ (ii) $y=k$ (iii) $x=0$ (iv) $x=k$ (v) $x=y$

15. A point lies on negative side of x-axis at a distance of 6 units from y-axis. What are the coordinates of the point?

(i) $(0,(-6))$ (ii) $(0,6)$ (iii) $(6,0)$ (iv) $((-6),0)$

16. Which of the following is a point on the y-axis?

(i) $((-6),7)$ (ii) $(2,0)$ (iii) $(0,7)$ (iv) $(1,9)$ (v) $(8,(-8))$

17. The point of intersection of x-axis and y-axis

(i) $(0,0)$ (ii) $(1,1)$ (iii) $(0,9)$ (iv) $(4,0)$ (v) $(1,0)$

18. Write down the coordinates when reflected in the y-axis $(2,(-6)),(1,(-5)),((-6),(-6)),((-4),9)$

(i) $((-2),(-6)),((-1),(-5)),(6,(-6)),(4,9)$ (ii) $((-2),(-6)),((-1),(-5)),(6,(-6)),(3,10)$

(iii) $((-2),(-6)),((-1),(-5)),(4,(-8)),(4,9)$ (iv) $((-2),(-6)),((-1),(-5)),(7,(-7)),(4,9)$

(v) $(0,(-4)),((-1),(-5)),(6,(-6)),(4,9)$

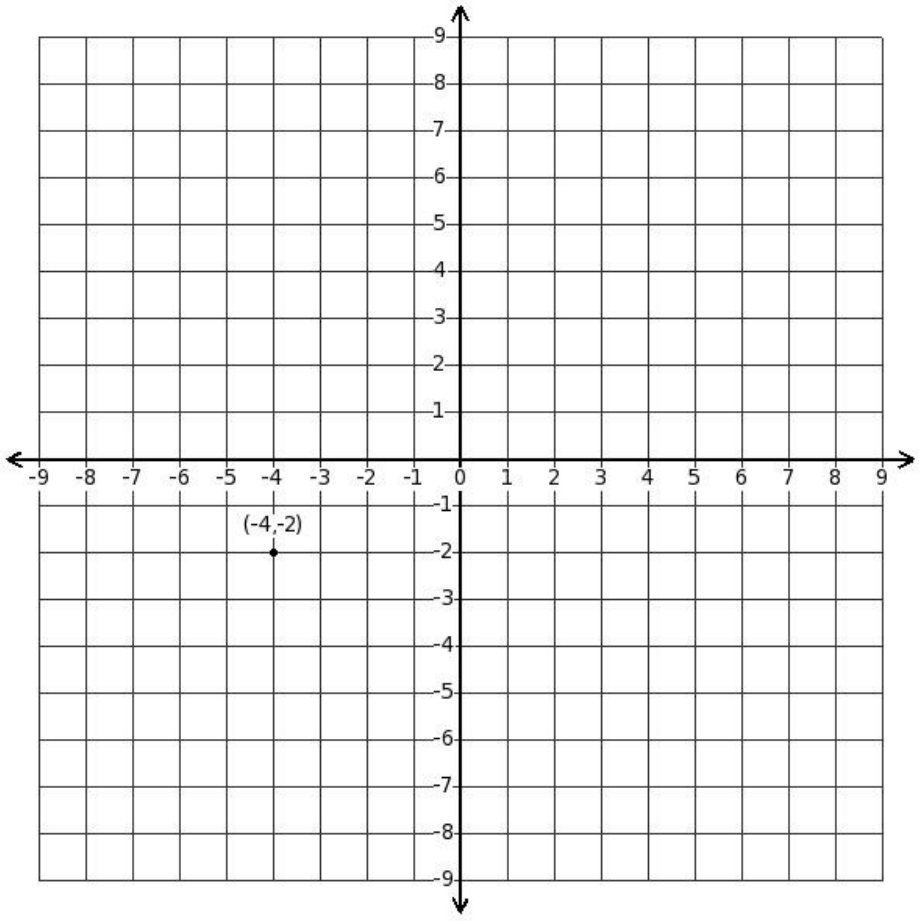
19. Find the coordinates of the point $((-6),(-7))$ when reflected in x-axis followed by reflection in y-axis

(i) $(7,6)$ (ii) $(6,(-7))$ (iii) $(6,7)$ (iv) $((-6),(-7))$ (v) $((-6),7)$

20. Find the coordinates of the point $(5,(-7))$ when reflected in x-axis followed by reflection in origin

(i) $(5,(-7))$ (ii) $(5,7)$ (iii) $((-5),7)$ (iv) $((-7),(-5))$ (v) $((-5),(-7))$

21. Determine the quadrant of the displayed point



(i) first quadrant (ii) third quadrant (iii) fourth quadrant (iv) second quadrant

22. A point lies on positive side of x-axis at a distance of 3 units from y-axis. What are the coordinates of the point?

(i) $(0,3)$ (ii) $((-3),0)$ (iii) $(3,0)$ (iv) $(0,(-3))$

23. Which of the following is a point on the positive y-axis?

(i) $((-6),1)$ (ii) $(0,5)$ (iii) $((-4),0)$ (iv) $(1,0)$ (v) $(0,(-2))$

24. The equation of the x-axis is

a) $y=1$
b) $y=0$
c) $x=0$
d) $x=1$
e) $x=y$

(i) {c,b} (ii) {a,b} (iii) {d,e,b} (iv) {b}

25. Which of the following is a point on the x-axis?

(i) $(0,3)$ (ii) $(7,6)$ (iii) $(4,(-2))$ (iv) $((-4),3)$ (v) $(5,0)$

Assignment Key

1) (v)	2) (ii)	3) (ii)	4) (ii)	5) (iii)	6) (v)
7) (i)	8) (v)	9) (v)	10) (iv)	11) (ii)	12) (i)
13) (ii)	14) (ii)	15) (iv)	16) (iii)	17) (i)	18) (i)
19) (iii)	20) (v)	21) (ii)	22) (iii)	23) (ii)	24) (iv)
25) (v)					