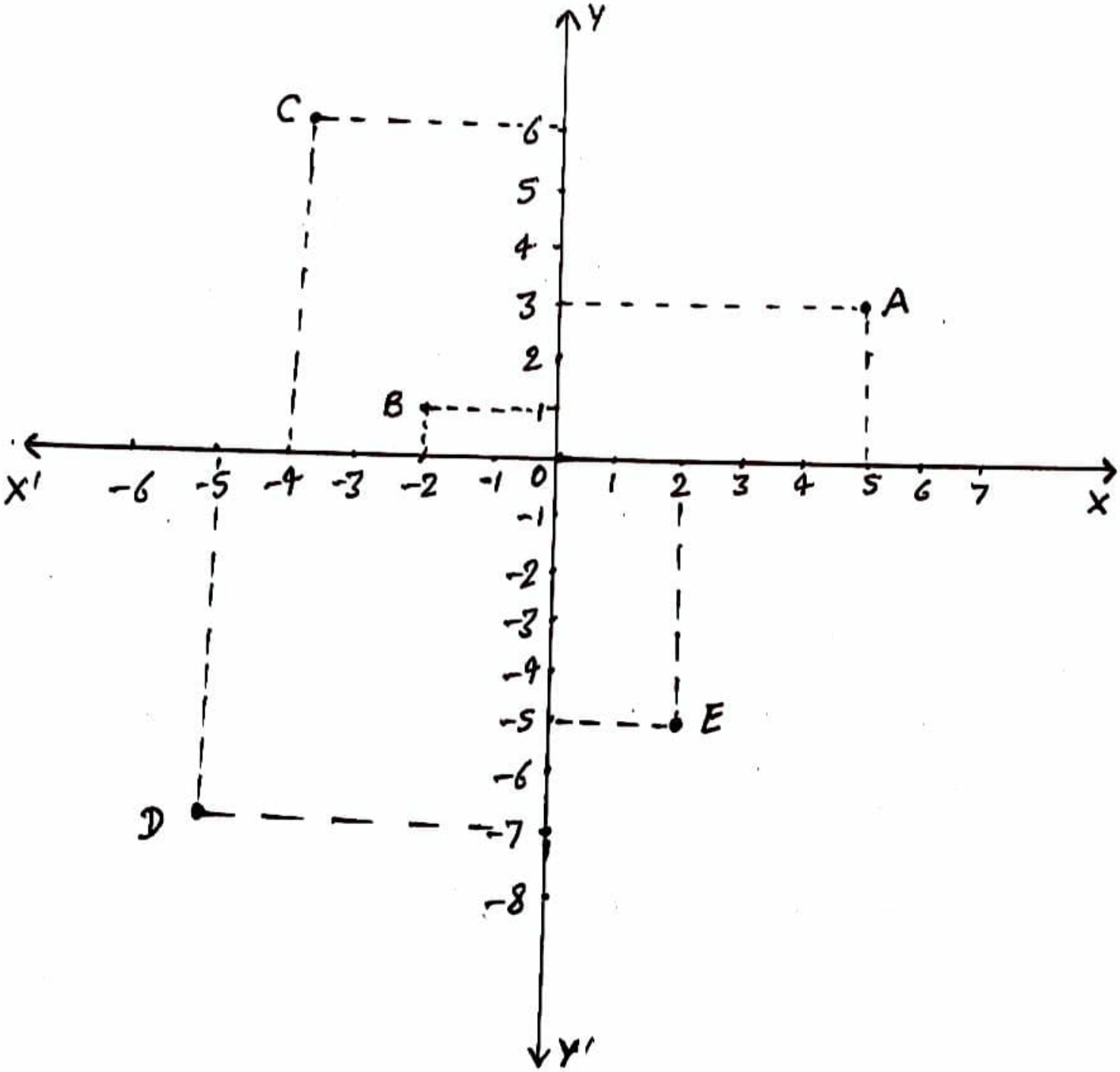
G. N. NATIONAL PUBLIC SCHOOL
GORAKHNATH, GORAKHPUR
CLASS IX MATHEMATICS
CHAPTER - 3, COORDINATE GEOMETRY
ASSIGNMENT Part - 1

Q-1. Write down the coordinates of each of the points A, B, C, D, E shown below:



Ch-3, Coordinate geometry Assignment Part-2

Q-2. Draw the lines X'OX and YOY' as the coordinate axes on a paper and plot the following points on it.

(i) A (7, 4) (ii) B (−5, 3)

(iii) C (−6, −3) (iv) D (3, −7)

(v) E (6, 0) (vi) F (0, 9)

(vii) G (0, −2) (viii) H (−3, 0)

Q-3. On which axis do the following points lie?

(i) (7, 0) (ii) (0, −6) (iii) (0, 2)

(iv) (−4, 0) (v) (1, 0)

Q-4. In which quadrant do the given points lie?

(i) (−6, 5) (ii) (−1, 4) (iii) (−2, −6)

(iv) (3, 4) (v) (4, −7)

Q-5. In which quadrant the point (x, y) lie if $x > 0$ and $y < 0$?

Ch-3, Coordinate Geometry Assignment Part-3

Q-6. Write the name of the point at which the two coordinate axis meet.

Q-7. Find the perpendicular distance of the point A(7, 5) from y-axis.

Q-8. The coordinate of two points are A(-3, 4) and B(-2, 5). Find the value of

(abscissa of A) − (abscissa of B)

Q-9. Find the mirror image of the point A(4, 5) in the x-axis

Q-10. In which quadrant the points A(2, -2), B(3, -3), C(4, -4) and D(5, -5) all lie?

Q-11. The three vertices of a rectangle ABCD are A(2, 2), B(-3, 2) and C(-3, 5). Plot ~~three~~ these points on a graph paper and hence, find the coordinate of D. Also, find the area of rectangle ABCD.

Ch-3, Coordinate Geometry Assignment Part-4

Q-12. Find the area of the $\triangle OAB$ with $O(0,0)$ $A(4,0)$ and $B(0,6)$.

Q-13. Plot the three points $A(1,4)$, $B(-2,2)$ and $C(3,2)$ on a graph paper and calculate the area of $\triangle ABC$.

Q-14. The three vertices of a square ABCD are $A(3,2)$, $B(-2,2)$ and $D(3,-3)$. Plot these points on a graph paper and hence, find the coordinate of C. Also, find the area of square ABCD.

Q-15. Plot the point $P(-6,3)$ on a graph paper. Draw $PL \perp$ x-axis and $PM \perp$ y-axis. Write the coordinate of L and M.