EduSahara™ Assignment

Name : Slope of a Straight Line

Chapter : Coordinate Geometry

Grade : SSC Grade X

1. The slope of x-axis is

   (i) 90 (ii) 1 (iii) -1 (iv) 0 (v) undefined

2. The slope of y-axis is

   (i) 90 (ii) 1 (iii) undefined (iv) 0 (v) -1

3. The slope of the line joining the points $((-1),(-6))$ and $(5,0)$ is

   (i) 4 (ii) -1 (iii) 0 (iv) 1 (v) 2

4. The slope of any line parallel to x-axis is

   (i) undefined (ii) 1 (iii) zero (iv) -1 (v) 90

5. The slope of any line parallel to y-axis is

   (i) undefined (ii) 1 (iii) 90 (iv) -1 (v) zero

6. Any line parallel to x-axis is

   (i) an oblique line (ii) a curved line (iii) a horizontal line (iv) a vertical line

7. Any line parallel to y-axis is

   (i) a horizontal line (ii) a curved line (iii) a vertical line (iv) an oblique line

8. A line which is neither parallel to x-axis nor y-axis is

   (i) an oblique line (ii) a vertical line (iii) a curved line (iv) a horizontal line

9. Which of the following are true?

   a) Slope of any line parallel to x-axis is zero
   b) Slope of any line parallel to y-axis is zero
   c) Slope of any line parallel to y-axis is not defined
   d) Slope of any line parallel to x-axis is not defined

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

10. Equation of the line passing through a given point (x_1, y_1) and having slope m is

    a) None of the above
    b) $(y - x_1) = m(x - y_1)$
    c) $(y - y_1) = m(x - x_1)$
    d) $(y - y_1)m = (x - x_1)$

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

11. The slope of the line passing through the points (x_1, y_1) and (x_2, y_2)

    (i) $\frac{y_2 - y_1}{x_2 - x_1}$ (ii) $\frac{x_2 - x_1}{y_2 - y_1}$ (iii) $\frac{x_2 + y_1}{y_2 + x_1}$ (iv) $\frac{x_2 + x_1}{y_2 + y_1}$ (v) $\frac{x_2 - y_1}{y_2 - x_1}$

12. The slope of a line is the tangent of the angle made by the line with the

(i) positive x-axis (ii) negative x-axis (iii) positive y-axis (iv) negative y-axis

Assignment Key

1) (iv)	2) (iii)	3) (iv)	4) (iii)	5) (i)	6) (iii)
7) (iii)	8) (i)	9) (i)	10) (iii)	11) (i)	12) (i)