EduSahara™ Assignment

Name : Slope of a Straight Line

Chapter : Coordinate Geometry

Grade : SSC Grade X

1. The slope of x-axis is

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

2. The slope of y-axis is

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

3. The slope of the line joining the points $(3,4)$ and $((-5),3)$ is

   (i) $\frac{3}{8}$ (ii) $\frac{1}{10}$ (iii) $\frac{1}{6}$ (iv) $(\frac{-1}{8})$ (v) $\frac{1}{8}$

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

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

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

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

6. Any line parallel to x-axis is

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

7. Any line parallel to y-axis is

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

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

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

9. Which of the following are true?

   a) Slope of any line parallel to x-axis is not defined
   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 zero

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

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

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

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

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

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) negative y-axis (iv) positive y-axis

Assignment Key

1) (v)	2) (i)	3) (v)	4) (i)	5) (i)	6) (ii)
7) (i)	8) (ii)	9) (v)	10) (i)	11) (i)	12) (i)