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) undefined (iii) 1 (iv) 0 (v) -1

2. The slope of y-axis is

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

3. The slope of the line joining the points $(8,(-3))$ and $(3,(-8))$ is

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

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

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

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

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

6. Any line parallel to x-axis is

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

7. Any line parallel to y-axis is

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

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

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

9. Which of the following are true?

   a) Slope of any line parallel to y-axis is zero
   b) Slope of any line parallel to x-axis is not defined
   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,d,c} (iii) {a,c} (iv) {c,d} (v) {a,b,c}

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

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

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

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

    (i) $\frac{x_2 + y_1}{y_2 + x_1}$ (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) $\frac{y_2 - y_1}{x_2 - x_1}$

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

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

Assignment Key

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