EduSahara™ Assignment

Name : Slope of a Straight Line

Chapter : Coordinate Geometry

Grade : SSC Grade X

1. The slope of x-axis is

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

2. The slope of y-axis is

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

3. The slope of the line joining the points $((-2),4)$ and $(3,(-5))$ is

   (i) $(\frac{-7}{3})$ (ii) $(\frac{-7}{5})$ (iii) $(\frac{-9}{5})$ (iv) $(\frac{-11}{5})$ (v) $(\frac{-11}{7})$

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

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

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

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

6. Any line parallel to x-axis is

   (i) a curved line (ii) a vertical line (iii) an oblique line (iv) a horizontal 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) a horizontal line (ii) an oblique line (iii) a curved line (iv) a vertical 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 not defined
   c) Slope of any line parallel to y-axis is zero
   d) Slope of any line parallel to x-axis is zero

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

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

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

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

(i) $\frac{x_2 - x_1}{y_2 - y_1}$ (ii) $\frac{x_2 - y_1}{y_2 - x_1}$ (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) (iv)	3) (iii)	4) (iv)	5) (iv)	6) (iv)
7) (iii)	8) (ii)	9) (iii)	10) (iv)	11) (v)	12) (iii)