EduSahara™ Assignment

Name : Slope of a Straight Line

Chapter : Coordinate Geometry

Grade : SSC Grade X

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

3. The slope of the line joining the points $(7,(-2))$ and $(0,3)$ is

   (i) -1 (ii) $(\frac{-3}{7})$ (iii) $(\frac{-5}{9})$ (iv) $(\frac{-5}{7})$

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

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

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

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

6. Any line parallel to x-axis is

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

7. Any line parallel to y-axis is

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

9. Which of the following are true?

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

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

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

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

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

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

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

Assignment Key

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

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