

**EduSahara™ Learning Center Assignment****Grade : Class X, SSC****Chapter : Coordinate Geometry****Name : Slope of a Straight Line**

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1. The slope of x-axis is

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

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2. The slope of y-axis is

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

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3. The slope of the line joining the points  $(2, -7)$  and  $(4, 3)$  is

(i) 5 (ii) 8 (iii) 6 (iv) 3 (v) 4

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

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

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

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

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6. Any line parallel to x-axis is

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

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7. Any line parallel to y-axis is

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

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

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

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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 x-axis is not defined
  - c) Slope of any line parallel to y-axis is not defined
  - d) Slope of any line parallel to y-axis is zero
- (i) {b,a} (ii) {b,c,a} (iii) {d,c} (iv) {a,c} (v) {b,d,a}
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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) {d} (ii) {a,d} (iii) {c,a,d} (iv) {b,d}
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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)  $\frac{x_2 + x_1}{y_2 + y_1}$

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

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

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