

Key – Coorgeo2_2
Part -I Slope of Line

- 1) ∞
- 2) $\frac{-5}{3}$
- 3) Slope of CD = 2.
- 4) Slope of the line parallel to x – axis is 0.
- 5) Slope = $\frac{-6}{5}$
- 6) Slope of the line perpendicular to the line MN = $\frac{1}{3}$
- 7) Slope of the line making 90 degree with x – axis is infinity.
- 8) Slope of the given line is -1.
- 9) Slope of the line EF = $\frac{-7}{15}$
- 10) Slope of CD = -1

Part – II – Intercepts

X intercept of the above line = - 4

Y intercept of the above line = - 3

X intercept of the X axis = All the points along the x - axis

Y intercept of the Y axis = All the points along the y – axis

Part – III – Equation of a Line

- 1) $y = 5x - 14$
- 2) $y = c$ is the equation of the line parallel x axis.
- 3) $x = a$ is the equation of the line parallel x axis.
- 4) The required equation is $y = -x / 3$
- 5) The required equation of the line is $10x - 3y + 2 = 0$

6) The required equation of the line is $x + y + 3 = 0$.

7) y – intercept of the line is -8 .

8) $y = x - 3$.

9) Slope of the line is $\frac{3}{5}$

Answer the following with the help of the above diagram.

i) $BC = AD = 3$

ii) Slope of $AB = CD = 0$.

Slope of $AD = BC = -1/0 = \text{infinity}$.

iii) Equation of the line AB is $y = -1$

Equation of the line CD is $y = 2$.

Equation of the line BC is $x = 3$

Equation of the line AD is $x = -4$.

iv) Area of the rectangle $= 7 \times 3 = 21$ sqr unit.

v) $A(-4, -1)$.

$B(3, -1)$

$C(3, 2)$.

$D(-4, 2)$.

vi) Perimeter $= 20$ units.

10) $y = x - 4$.

11) $y = -7$ is the y intercept of the given line.

12) x – intercept of the given line is $-2/5$.