

Find the slope and y-intercept of each line:

1. $2x - y + 5 = 0$

2. $2(y - 3) + (x - 6) = 4(x + 1) - 2$

Write the equation for each line:

3. $m = -1$, a point on the line is $(6, 2)$

4. Two points on the line are $(4, 3)$ and $(2, -1)$

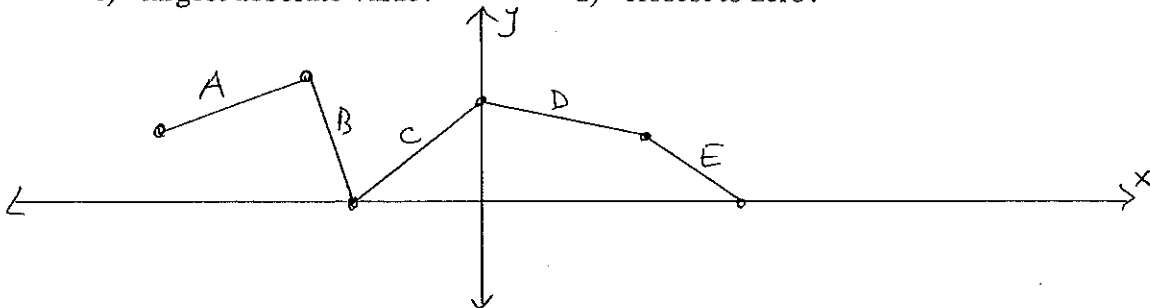
5. For which line segment is the slope

a) largest?

b) smallest?

c) largest absolute value?

d) closest to zero?



Find the coordinates of point P:

6. P lies 3 units above the x-axis and on the same vertical line as $(-6, 7)$.

7. P lies 4 units to the right of the y-axis and its y-coordinate is half of its x-coordinate.

Write the equation of each line:

8. With x-intercept= 4 and y-intercept= -2

9. Parallel to $y = -x + 4$ and passes through $(-1, 2)$

10. Passing through $(5, -9)$ and perpendicular to $x + 7y - 12 = 0$

Find the average rate of change.

11. $f(x) = 3x$ from $x_1 = 0$ to $x_2 = 5$

12. $f(x) = x^2 - 2x$ from $x_1 = 3$ to $x_2 = 6$

13. $f(x) = \sqrt{x}$ from $x_1 = 4$ to $x_2 = 9$

Use intercepts to graph each line:

14. $6x - 9y - 18 = 0$

15. $3x + 5y + 15 = 0$