

Slope Formula

1. Plot the following points on the Cartesian coordinate system.

$$A = (3,5)$$

$$H = (1,1)$$

$$B = (-2,6)$$

$$I = (-2,-4)$$

$$C = (4,0)$$

$$J = (-4,0)$$

$$D = (-1,-3)$$

$$K = (5,-3)$$

$$E = (4,-6)$$

$$L = (4,4)$$

$$F = (0,5)$$

$$M = (0,-3)$$

$$G = (-2,0)$$

$$N = (1,0)$$

2. Plot the following points on the Cartesian coordinate system.

$$A = (2,5)$$

$$H = (2,2)$$

$$B = (-1,6)$$

$$I = (-3,-2)$$

$$C = (3,0)$$

$$J = (-5,0)$$

$$D = (-2,-3)$$

$$K = (4,-3)$$

$$E = (1,-6)$$

$$L = (3,3)$$

$$F = (0,4)$$

$$M = (0,-2)$$

$$G = (-3,0)$$

$$N = (5,0)$$

3. Plot the following special points on the Cartesian coordinate system.

$$A = (0,3)$$

$$B = (0,-2)$$

$$C = (0,1)$$

$$D = (0,5)$$

$$E = (0,-6)$$

$$F = (0,-1)$$

$$G = (0,4)$$

4. Plot the following special points on the Cartesian coordinate system.

$$A = (0,-3)$$

$$B = (0,2)$$

$$C = (0,-1)$$

$$D = (0,-5)$$

$$E = (0,6)$$

$$F = (0,1)$$

$$G = (0,-4)$$

Draw a line through two points $(x,y)_1$ and $(x,y)_2$ and determine the slope of the line using the slope formula $m = \frac{y_2 - y_1}{x_2 - x_1}$.

5. $(2,-1)$ and $(0,4)$

6. $(4,-2)$ and $(0,4)$

7. $(2,5)$ and $(0,-2)$

8. $(3,4)$ and $(0,-2)$

9. $(-3,4)$ and $(1,2)$

10. $(-4,1)$ and $(2,1)$

11. $(3,3)$ and $(-2,-2)$

12. $(4,4)$ and $(-1,-1)$

13. $(0,-1)$ and $(3,0)$

14. $(0,-2)$ and $(4,0)$

15. $(0,5)$ and $(-3,0)$

16. $(0,3)$ and $(-4,0)$

17. $(3,-2)$ and $(2,0)$

18. $(1,-2)$ and $(5,0)$

19. $(2,1)$ and $(5,1)$

20. $(4,1)$ and $(3,1)$

21. $(2,-5)$ and $(3,-5)$

22. $(3,-2)$ and $(3,-1)$

23. $(4,1)$ and $(4,-3)$

24. $(-2,5)$ and $(-2,0)$

25. $(-2,5)$ and $(-2,-2)$

26. $(1,4)$ and $(1,-3)$