

Writing Equations in Slope-Intercept Form

Write an equation in slope-intercept form of the line with each slope and y-intercept.

1. $m = -3, b = 5$

2. $m = 6, b = 2$

3. $m = 4, b = -1$

4. $m = 0, b = 4$

5. $m = \frac{2}{5}, b = -7$

6. $m = -\frac{3}{4}, b = 8$

7. $m = -\frac{4}{3}, b = -2$

8. $m = -5, b = 6$

9. $m = \frac{1}{2}, b = -9$

Write an equation in slope-intercept form of the line having the given slope and passing through the given point.

10. $m = 3, (4, 2)$

11. $m = -2, (-1, 3)$

12. $m = 4, (0, -7)$

13. $m = -\frac{3}{5}, (-5, -3)$

14. $m = \frac{1}{4}, (-8, 6)$

15. $m = -\frac{2}{3}, (9, -4)$

16. $m = \frac{5}{6}, (6, -6)$

17. $m = 0, (-8, -7)$

18. $m = -\frac{3}{2}, (-8, 9)$

Write an equation in slope-intercept form of the line passing through each pair of points.

19. $(1, 3)$ and $(-3, -5)$

20. $(0, 5)$ and $(3, -4)$

21. $(2, 1)$ and $(3, 6)$

22. $(-3, 0)$ and $(6, -6)$

23. $(4, 5)$ and $(-5, 5)$

24. $(0, 6)$ and $(-4, 3)$

25. $(-3, 2)$ and $(3, -6)$

26. $(-7, -6)$ and $(-5, -3)$

27. $(6, -4)$ and $(0, 2)$