

Homework: Linear Functions and Slope

In Problems 1-5, find the slope of the line passing through each pair of points or state that the slope is undefined

1. (2,3) and (8,11)	2. (-1,5) and (4,2)
3. (7,8) and (2,8)	4. (-9,-2) and (-1,8)
5. (-1,2) and (-1,4)	

In Problems 6-19, use the given conditions to write an equation for each line in slope-intercept form

6. Slope = 3, passing through (5,1)	7. Slope = 5, passing through (2,-1)
8. Slope = -2, passing through (-3,-4)	9. Slope = -5, passing through (-5,0)
10. Slope = -2, passing through $\left(\frac{1}{3}, -3\right)$	11. Slope = $\frac{-2}{3}$, passing through origin
12. Slope = $\frac{2}{5}$, passing through (4,-3)	13. passing through (9,1) and (6,10)
14. passing through (5,0) and (0,-5)	15. passing through (-2,-1) and (8,-4)
16. passing through (-9,-1) and (6,2)	17. passing through (8, 2) and (-4, 0)
18. passing through (-2,3) with x - intercept = 4	19. x - intercept = -5 and y - intercept = - 2

In Problems 20-24, give the slope and y-intercept of each line whose equation is given. Then graph the linear function

20. $y = 3x - 5$	21. $y = -x + 2$
22. $y = \frac{1}{2}x - 1$	23. $y = \frac{3}{5}x$
24. $y = \frac{-2}{3}x + 4$	

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In Problems 25-29, graph each equation in a rectangular coordinate system

25. $x = -4$	26. $y = 1$
27. $x = 0$	28. $f(x) = 5$
29. $5x - 20 = 0$	

In Problems 30-36, graph each linear function

30. $5x - y = 4$	31. $3x + 4y = 12$
32. $9x - 3y - 9 = 0$	33. $4x - 8 = 0$
34. $3x + 2y = 4$	35. $7x - 2y = 8$
36. $9y - 27 = 0$	