

Homework: Linear Equations in Two Variables

In Problems 1-2, graph each linear equation by plotting points or TI-83/84

1. $x + 3y = 9$	2. $\frac{1}{4}x - y = 2$
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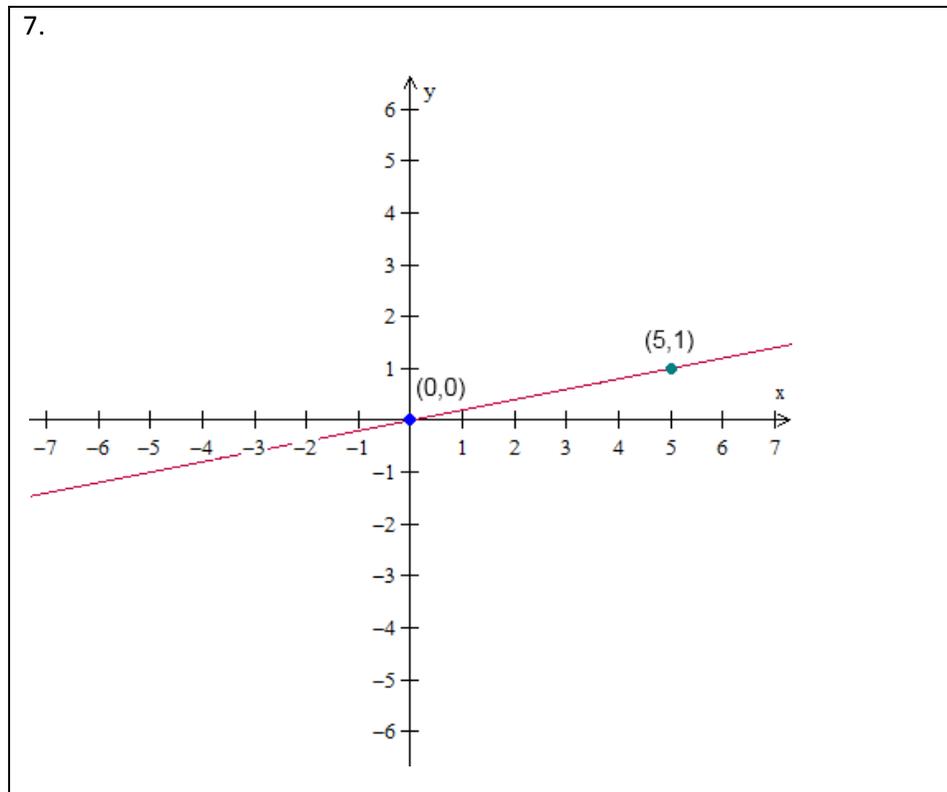
In Problems 3-5, graph each linear equation by finding its intercepts

3. $2x - y = 8$	4. $\frac{1}{5}x - \frac{1}{3}y = -1$
5. $\frac{2}{5}x + \frac{1}{3}y = 1$	

In Problem 6, graph each linear equation

6. $y = -2$	
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In Problem 7, find the slope of the line



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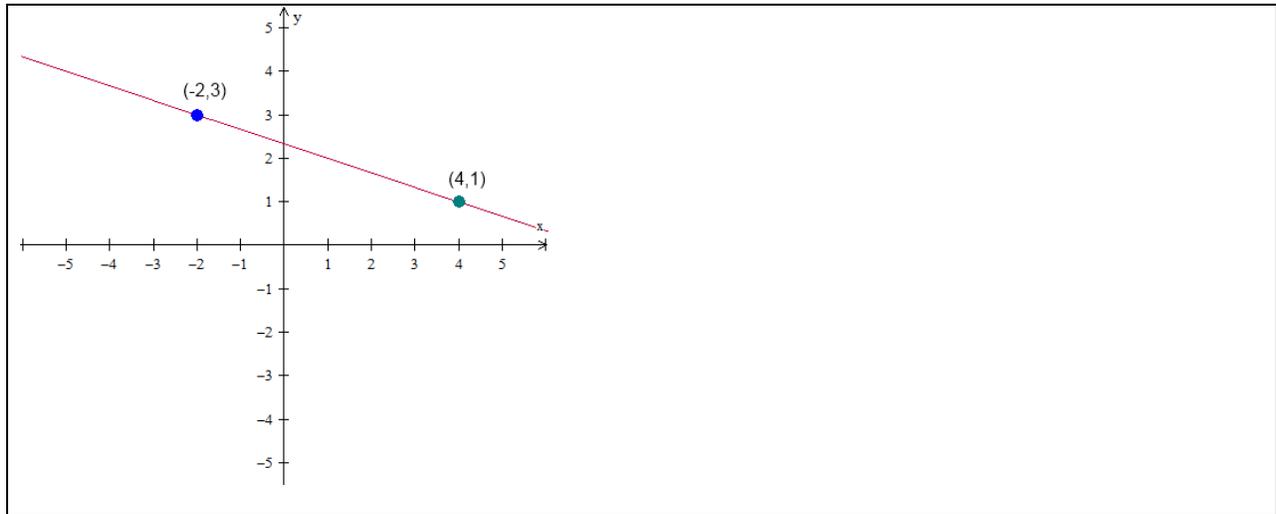
In Problems 8-10, plot each pair of points and graph the line containing them. Determine the slope of the line

8. $(2, 1), (-3, 2)$	9. $(5, -1), (-2, -3)$
10. $(4, 1), (4, 3)$	

In Problems 11-13, graph the line that contains the given point and has slope m . Do not find an equation of the line.

11. $m = 2; (4, 1)$	12. $m = \frac{-2}{3}; (1, 2)$
13. $m = 0; (3, 4)$	

In Problem 14, find an equation of the line. Express your answer in slope-intercept form.



In Problems 15-17, find an equation of the line that has the given slope and contains the given point. Express your answer in slope-intercept form.

15. $m = -2; (5, -1)$	16. $m = \frac{-1}{2}; (4, 3)$
17. $m = \text{undefined}; (5, -2)$	

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In Problems 18-20, find an equation of the line that contains the given points. Express your answer in slope-intercept form.

18. $(1, 5), (-4, -30)$	19. $(4, 2), (4, 8)$
20. $(7, -2), (3, -1)$	

In Problems 21-23, find the slope and y-intercept of each line. Graph the line.

21. $y = -5x$	22. $3x + 4y = 7$
23. $y = 4$	