



Matched Problems
Slope-Intercept Form
Section 3.5

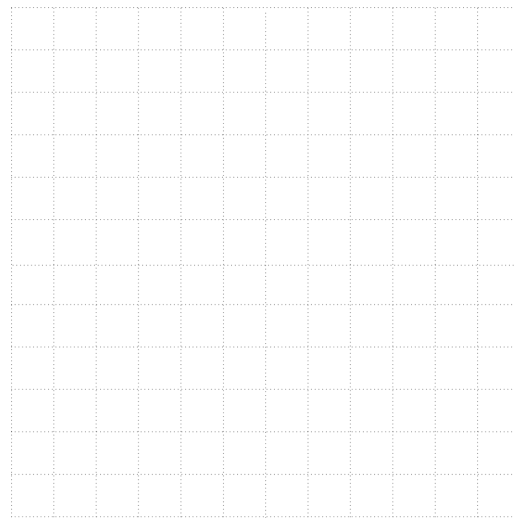
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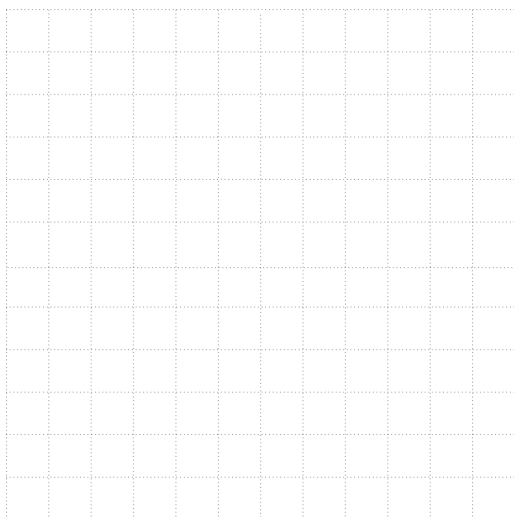
Directions Work each of the problems below, showing your work neatly and clearly. Each problem is similar to the example with the same number in your eBook. If you are stuck on a problem, you can read through the corresponding example in your eBook, and you can watch one of the videos that accompany that example. Also, you can use the QR code at the right to view the videos for this section on your smart phone or tablet.



1. Find the equation with slope $1/2$ and y -intercept -1 .
2. Find the equation, and graph the line with slope $-1/3$ and y -intercept 2 .



3. Find the slope and y -intercept for $-3x + y = 6$. Then draw the graph.
4. Find the slope and y -intercept for $x + 3y = 6$.



5. Find the equation of the line with slope $-\frac{1}{2}$ that contains the point $(5, -4)$.
6. Find the equation of the line that passes through $(5, 1)$ and $(-2, -2)$.
7. Find the equation of the horizontal line passing through $(2, -5)$

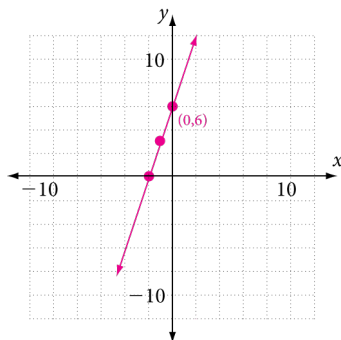
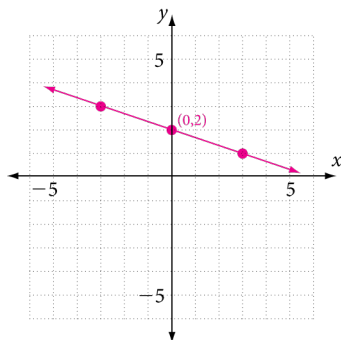
Answers

1. $y = \frac{1}{2}x - 1$

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

3. $m = 3$, y-intercept is 6.

4. Slope = $-\frac{1}{3}$, y-intercept is 2



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

6. $y = \frac{3}{7}x + \frac{32}{7}$

7. $y = -5$