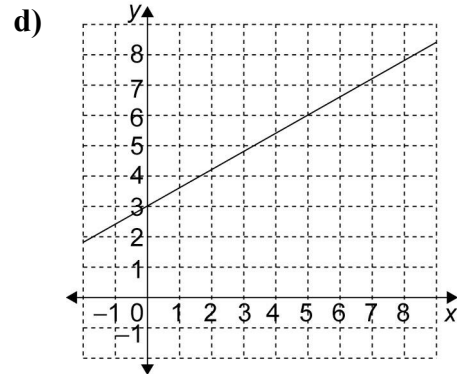
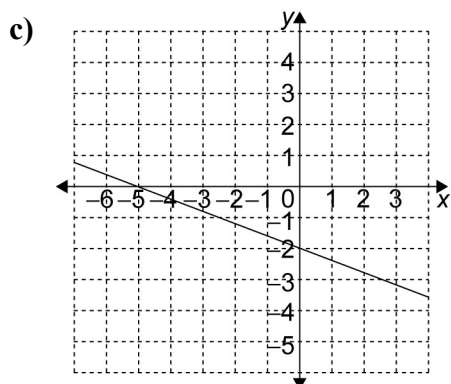
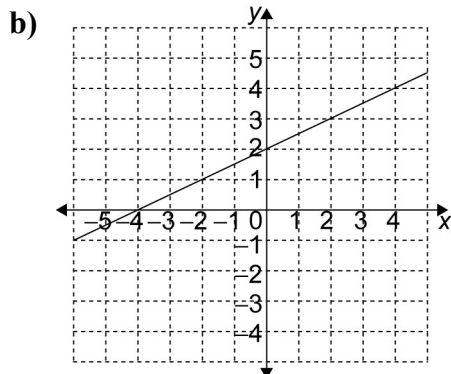
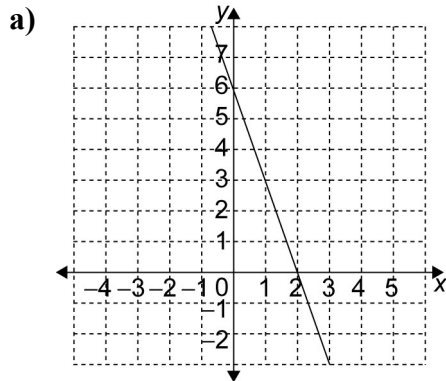


Practice: The Equation of a Line in Slope y -Intercept Form: $y = mx + b$

1. Copy and complete the table.

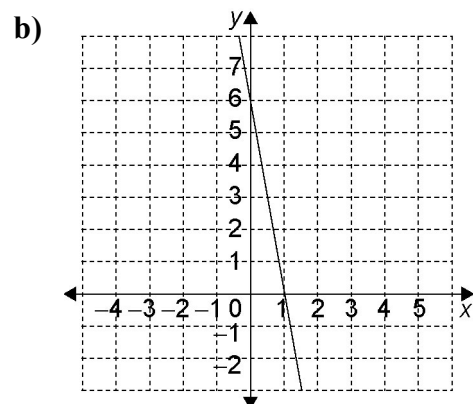
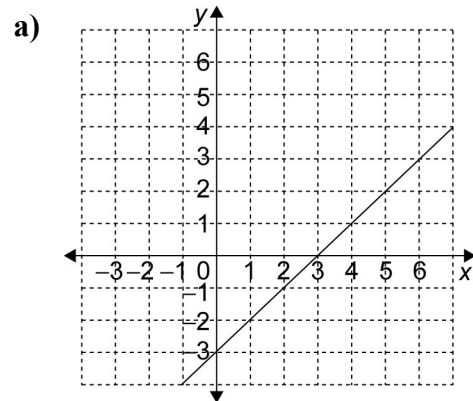
| | Equation | Slope | y -Intercept |
|----|-----------------------|-------|----------------|
| a) | $y = 4x + 1$ | | |
| b) | $y = \frac{x}{2} - 3$ | | |
| c) | $y = -2x$ | | |
| d) | $y = -x + 2$ | | |

2. Find the slope and
- y
- intercept of each line.



3. Write the equation of each line in question 2.

4. Write the equation of each line.



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5. Write the equation of a line with each slope and y -intercept.

| | Slope | y-Intercept |
|-----------|----------------|---------------------------------|
| a) | -2 | 1 |
| b) | $\frac{2}{3}$ | -4 |
| c) | 5 | 0 |
| d) | $-\frac{3}{2}$ | 3 |

6. Find the slope and y -intercept of each line, if they exist. Graph each line.

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

b) $y = x - 4$

c) $y = 5$

d) $y = -\frac{x}{2}$