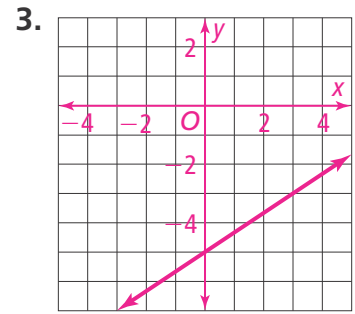
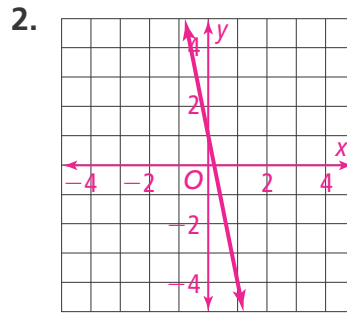
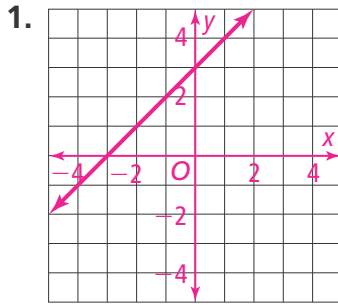


2-1 Slope-Intercept Form



4. $y = 2x + 1$

5. $y = -5$

6. $y = -\frac{1}{2}x + 4$

7. $y = x + 4$

8. $y = -\frac{1}{4}x + 7$

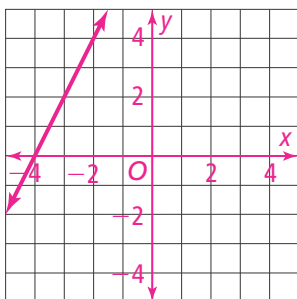
9. $y = \frac{1}{3}x - 1$

10. $B = -150m + 1800$

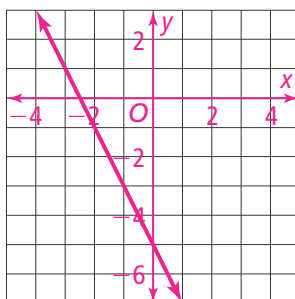
11. In the equation $B = -150m + 1800$, the slope signifies the monthly payment amount because the balance decreases by \$150 each month.

2-2 Point-Slope Form

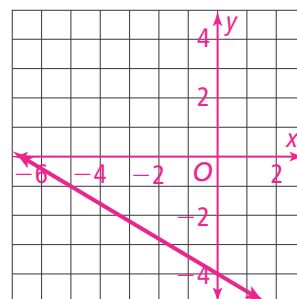
1.



2.



3.



4.

$$y - 1 = 3(x - 2)$$

5.

$$y + 5 = -2(x + 3)$$

6.

$$y + 11 = \frac{3}{4}(x - 4)$$

7.

$$y = -\frac{1}{6}(x - 4),$$

$$y - 3 = \frac{5}{8}(x - 5),$$

$$y - 4 = \frac{3}{8}(x - 3),$$

$$y - 1 = -\frac{1}{6}(x + 2)$$

$$y + 2 = \frac{5}{8}(x + 3)$$

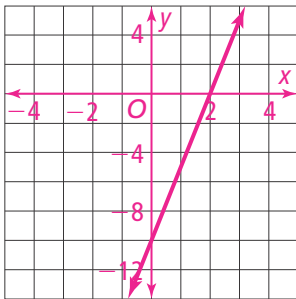
$$y - 1 = \frac{3}{8}(x + 5)$$

10.

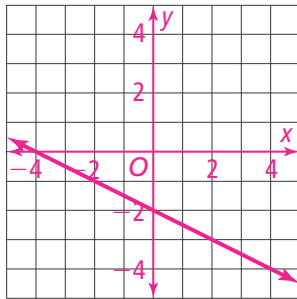
Sample answer: Slope-intercept form: $y = 8x - 1000$. The slope 8, represents the profit on each calendar, and the y-intercept, -1000 , represents the loss if no calendars were sold.

2-3 Standard Form

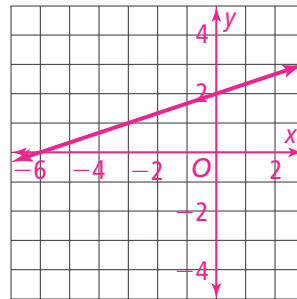
1.



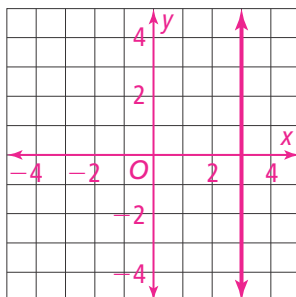
2.



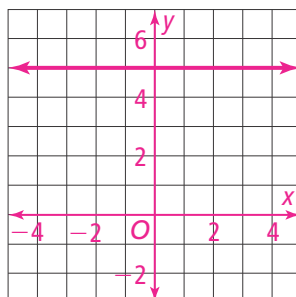
3.



4.



5.



6.

(20, 0) and (0, -16)

7.

(16, 0) and (0, 14)

8.

(18, 0) and (0, -12)

9. a. **Sample Answer:** $3x + 7y = 42$

b. **Sample Answer:** The x -intercept is 14, which means that the team scored 14 field goals. The y -intercept is 6, which means that the team scored 6 touchdowns.

2-4 Parallel and Perpendicular Lines

1. $y = 3x - 7$ 2. $y = \frac{2}{3}x + 10$ 3. $y = -\frac{3}{4}x + 4$ 4. $y = \frac{1}{2}x - 2$

5. $y = \frac{3}{2}x - 8$ 6. $y = -6x - 24$ 7. perpendicular 8. intersecting

9. parallel

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