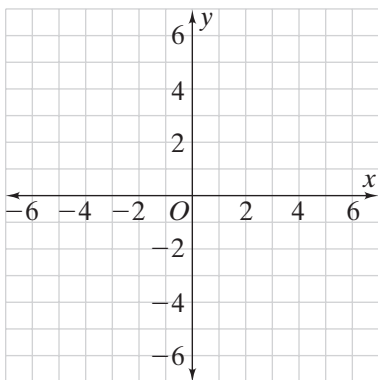# Practice 5-1

Proportional Relationships
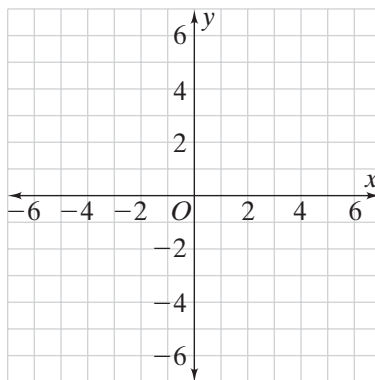
Solve each system of equations by graphing. Check your solution.

1. $y = x + 3$
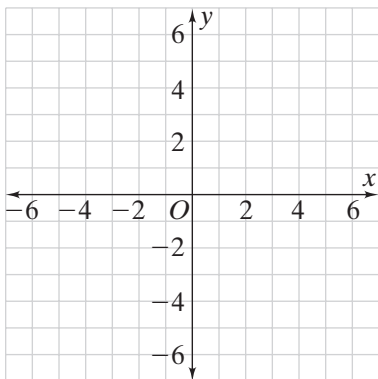$y = 4x - 3$

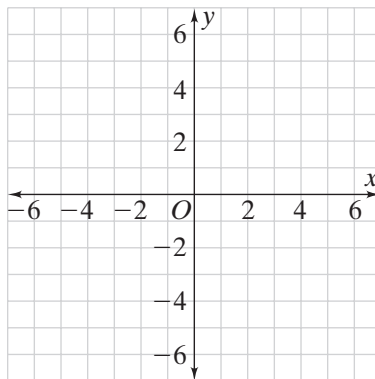**2.** $y = \frac{1}{3}x + \frac{4}{3}$

$y = -\frac{1}{2}x + \frac{11}{2}$

3. $x + y = -1$
$-2x + y = 5$

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

5. During a football game, a concession stand sold a family 3 hamburgers and 2 hotdogs for a total of $13. It sold another family 2 hamburgers and 5 hotdogs for a total of $16. What are the prices of a hamburger and a hotdog?

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