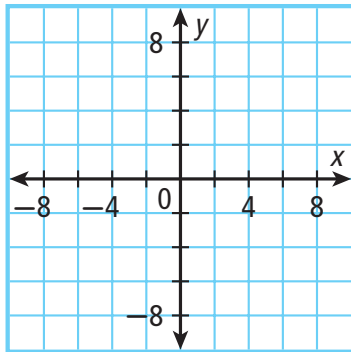## 5-7 Solving Quadratic Inequalities

✓ Lesson Quiz

1. Graph $y \le x^2 + 9x + 14$.

Solve each inequality.

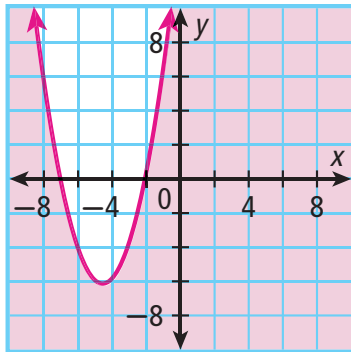2. $x^2 + 12x + 39 \ge 12$

3. $x^2 - 24 \le 5x$

4. A boat operator wants to offer tours of San Francisco Bay. His profit P for a trip can be modeled by $P(x) = -2x^2 + 120x - 788$, where x is the cost per ticket. What range of ticket prices will generate a profit of at least $500?

Holt Algebra 2

5-7 **Solving Quadratic Inequalities**

✓ **Lesson Quiz**

1. Graph $y \le x^2 + 9x + 14$.

Solve each inequality.

2. $x^2 + 12x + 39 \ge 12$ $x \le -9$ or $x \ge -3$

3. $x^2 - 24 \le 5x$ $-3 \le x \le 8$

4. A boat operator wants to offer tours of San Francisco Bay. His profit P for a trip can be modeled by $P(x) = -2x^2 + 120x - 788$, where x is the cost per ticket. What range of ticket prices will generate a profit of at least $500? **between $14 and $46, inclusive**

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