

5-7 Solving Quadratic Inequalities

Warm Up

1. Graph the inequality
 $y < 2x + 1$.

Solve using any method.

2. $x^2 - 16x + 63 = 0$
3. $3x^2 + 8x = 3$

5-8 Curve Fitting with Quadratic Models

Warm Up

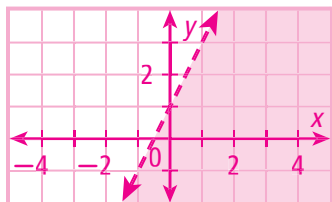
Solve each system of equations.

1.
$$\begin{cases} 3a + b = -5 \\ 2a - 6b = 30 \end{cases}$$
2.
$$\begin{cases} 9a + 3b = 24 \\ a + b = 6 \end{cases}$$
3.
$$\begin{cases} 4a - 2b = 8 \\ 2a - 5b = 16 \end{cases}$$

5-7 Solving Quadratic Inequalities

Warm Up

- Graph the inequality $y < 2x + 1$.



Solve using any method.

- $x^2 - 16x + 63 = 0$ **7, 9**
- $3x^2 + 8x = 3$ **$-3, \frac{1}{3}$**

5-8 Curve Fitting with Quadratic Models

Warm Up

Solve each system of equations.

- $$\begin{cases} 3a + b = -5 \\ 2a - 6b = 30 \end{cases} \quad a = 0, b = -5$$
- $$\begin{cases} 9a + 3b = 24 \\ a + b = 6 \end{cases} \quad a = 1, b = 5$$
- $$\begin{cases} 4a - 2b = 8 \\ 2a - 5b = 16 \end{cases} \quad a = \frac{1}{2}, b = -3$$