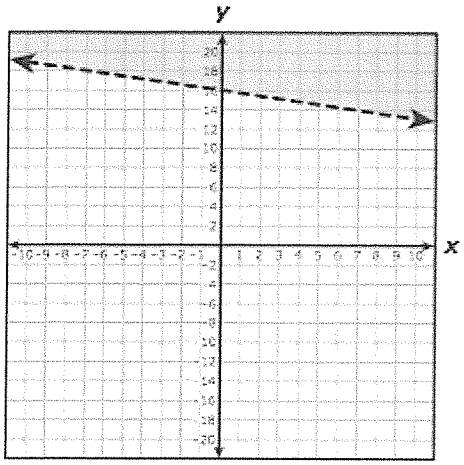
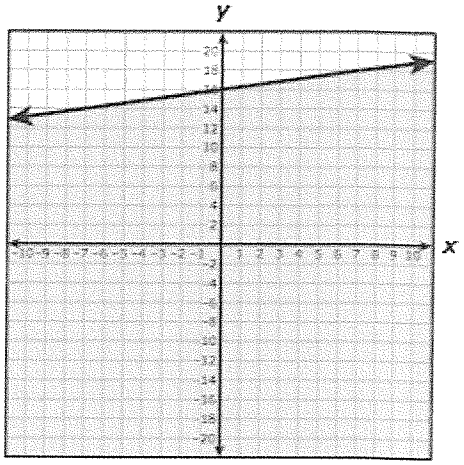
Inequalities

49 Which graph represents the inequality $-2x + 7y \leq 112$?

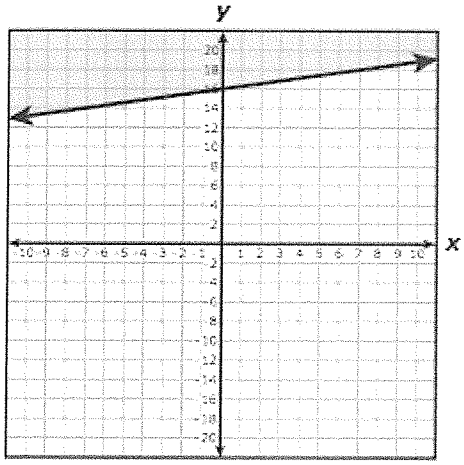
A



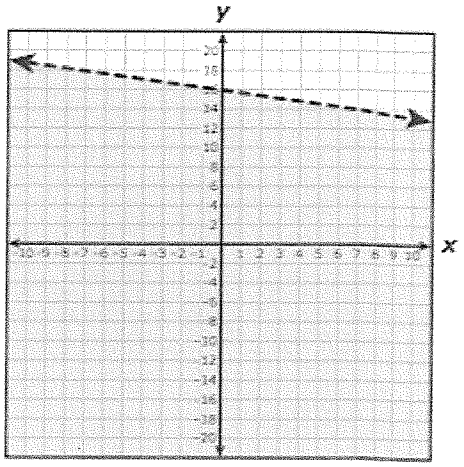
C



B



D



40 Which inequality represents all the values of x for $y \leq -6(x - 18) - 2$ when $y = 46$?

F $x \leq 10$

G $x \leq -11$

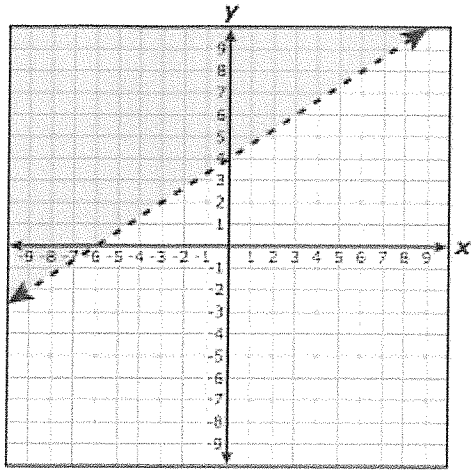
H $x \geq -11$

J $x \geq 10$

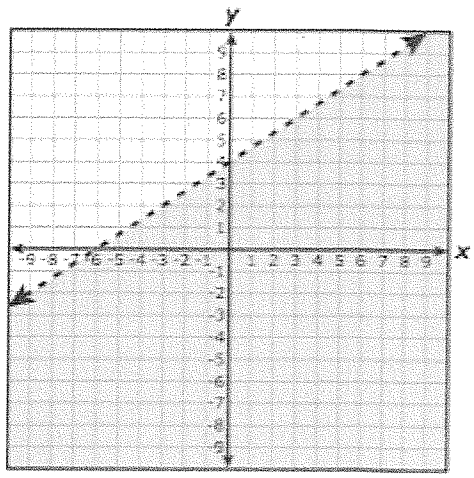
Inequalities

15 Which graph represents the inequality $-2x + 3y > 12$?

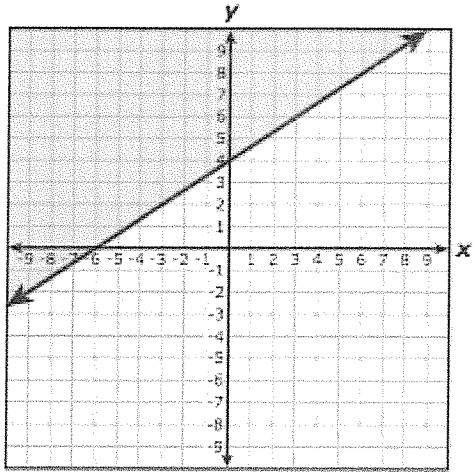
A



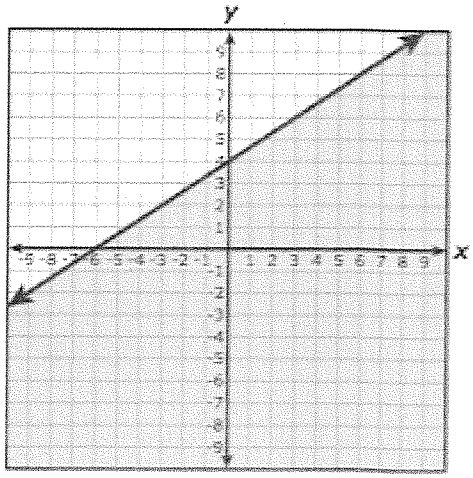
C



B



D



Inequalities

25 Which inequality is equivalent to $-3x + 2y > 5y + 9$?

A $y > x + 3$

B $y > -x - 3$

C $y < x - 3$

D $y < -x - 3$

37 Which of the following describes all the solutions to the inequality $5x + 7y \geq 22$ when $y = -4$?

A $x \leq 10$

B $x \leq -10$

C $x \geq 10$

D $x \geq -10$

Inequalities

52 A tennis player broke the old record for the most matches won in a tournament by at least 2 matches. Which inequality can be used to find all possible values of t, the number of matches the player won, in terms of r, the old record?

F $t \leq r - 2$

G $t \geq 2r$

H $t \leq \frac{r}{2}$

J $t \geq r + 2$

4 A family will travel 350 miles from their house in order to reach Dallas, TX. Which inequality can be used to find all possible values of t, the time it will take this family to reach Dallas in hours, if they travel at an average speed of at least r miles per hour?

F $t \leq 350r$

G $t > \frac{r}{350}$

H $t \leq \frac{350}{r}$

J $t > 350r^2$

Inequalities

22 Which inequality is equivalent to $7x - 2y > 8$?

F $y > \frac{7}{2}x + 8$

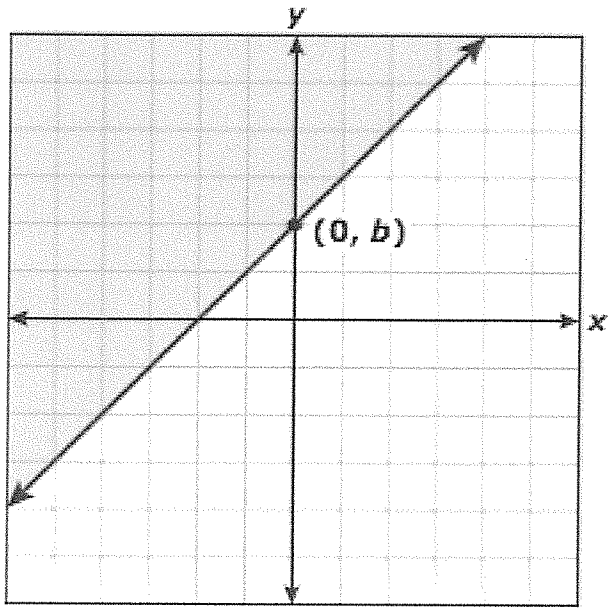
G $y > -\frac{2}{7}x + \frac{8}{7}$

H $y < \frac{7}{2}x - 4$

J $y < -\frac{2}{7}x - \frac{4}{7}$

Inequalities

50 Which inequality can be represented by the graph below?



F $y \geq x + b$

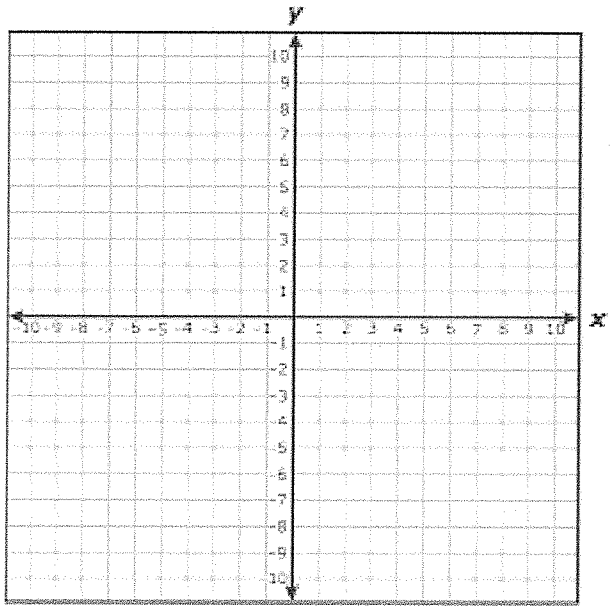
G $x - y \geq -b$

H $x + y \leq b$

J $-y \leq x + b$

Inequalities

31 Which coordinate pair is in the solution set for $y < 1 - 6x$?



A (1, 0)

B (1, −1)

C (0, 1)

D (−1, 1)

Inequalities

2 A man bought x boxes of doughnuts for \$3.49 each. He paid with a \$50 bill and received the correct amount of change. If he received more than \$10 but less than \$20, which inequality represents the number of boxes of doughnuts he could have bought?

F $9 \leq x \leq 11$

G $8 \leq x \leq 12$

H $8 \leq x \leq 11$

J $9 \leq x \leq 12$