

2-8

Practice

Form G

Two-Variable Inequalities

Graph each inequality.

1. $y < x$

2. $y \geq x$

3. $y > 2$

4. $y < 2$

5. $x \leq 2$

6. $-2y \leq -x - 2$

7. $-2x - y - 1$

8. $y \geq 3x - 4$

9. You have a \$25 calling card. Calls made using the card within the United States cost \$.10 per minute while calls made from the US to France cost \$.25 per minute.

a. Write an inequality that relates the number of minutes x you can use for calls within the U.S. and the number of minutes y you can use for calls from the U.S. to France.

b. Graph the inequality.

Graph each absolute value inequality.

10. $y \geq |x|$

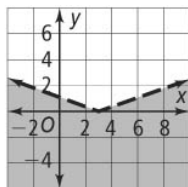
11. $y > |x + 2|$

12. $y \leq |x - 2|$

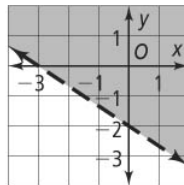
13. $y > |x| + 2$

Write an inequality for each graph. The equation for the boundary line is given.

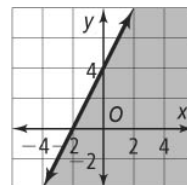
14. $y - 2x = 4$



15. $-2x - 3y = 6$



16. $3y = |x - 3|$



2-8**Practice** (continued)

Form G

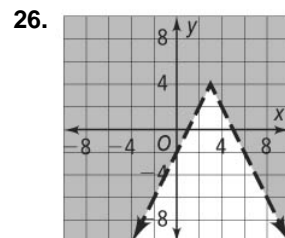
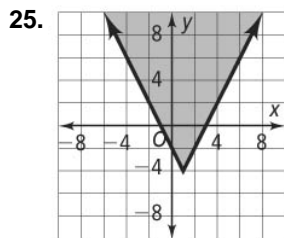
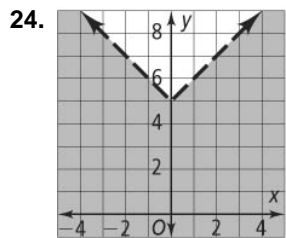
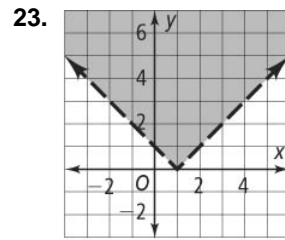
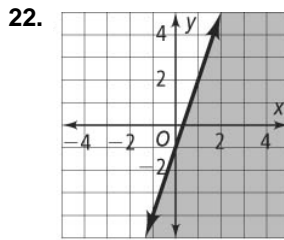
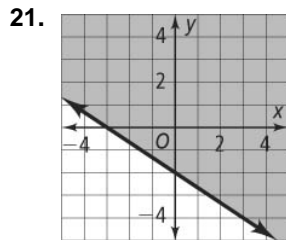
Two-Variable Inequalities**Graph each inequality on a coordinate plane.**

17. $4x + 2y \leq 8$

18. $3x \leq 5y$

19. $y > -\frac{1}{6}x - 1$

20. $y \geq \left| \frac{1}{6}x \right| - 3$

Write an inequality for each graph.

27. Open-Ended Write an inequality that includes $(0, 9)$, $(-10, 10)$, $(10, -20)$, and $(-20, 15)$ as solutions.

28. A salesperson sells two models of vacuum cleaners. One brand sells for \$150 each and the other sells for \$200 each. The salesperson has a weekly sales goal of at least \$1800.

- Write an inequality relating the revenue from the vacuum cleaners to the sales goal.
- Graph the inequality.
- If the salesperson sold exactly six \$200 models last week, how many \$150 models did she have to sell to make her sales goal?