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### 5.5 Practice A

In Exercises 1 and 2, use the graph to solve the equation. Check your solution.

1. $3 x-2=4$

2. $x=2 x-5$


In Exercises 3-6, solve the equation by graphing. Check your solution.
3. $x-6=3 x$
4. $-x=x-4$
5. $x-4=-2 x+2$
6. $\frac{1}{3} x+1=x-3$

In Exercises 7 and 8, solve the equation by graphing. Determine whether the equation has one solution, no solution, or infinitely many solutions.
7. $4 x+3=4 x-2$
8. $3 x+6=3(x+2)$
9. Use the graphs to solve the equation. Check your solutions.
$|3 x-1|=|x+1|$



In Exercises 10 and 11, solve the equation by graphing. Check your solutions.
10. $|x+6|=|-2 x|$
11. $|x+1|=|2 x-4|$
12. You need to rent a bowling lane. On Friday nights, you have two options.

Option A is a $\$ 20$ lane rental plus $\$ 3$ per game. Option B is a $\$ 35$ lane rental with a maximum of 10 games. For what number of games is the total cost the same for each option?
$\qquad$

### 5.6 Practice A

In Exercises 1-4, tell whether the ordered pair is a solution of the inequality.

1. $x-y>2 ;(5,4)$
2. $x+y \leq-3 ;(-1,-4)$
3. $5 x+y \leq 12 ;(2,2)$
4. $x-3 y>6 ;(3,-1)$

In Exercises 5-10, tell whether the ordered pair is a solution of the inequality $\mathbf{n}$ is shown.
5. $(1,0)$
6. $(-1,-1)$
7. $(0,0)$
8. $(-3,1)$
9. $(2,-4)$
10. $(0,3)$

11. You have $\$ 150$ to spend on video games. The inequality $7 x+32 y \leq 150$ represents the number $x$ of used video games and the number $y$ of new video games that you can purchase. Can you purchase 10 used video games and 3 new video games? Explain.

In Exercises 12-17, graph the inequality in a coordinate plane.
12. $y \geq 2$
13. $x<-3$
14. $y<-1$
15. $y<2 x-5$
16. $y \geq-x+3$
17. $-3 x+y \leq 1$
18. Describe and correct the error in graphing $y>2 x-3$.


In Exercises 19 and 20, write an inequality that represents the graph.
19.

20.


