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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?
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### 5.5 Practice B

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

1. $x-3=\frac{1}{2} x-1$

2. $-\frac{2}{3} x-1=x+4$


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

In Exercises 7 and 8, solve the equation by graphing. Determine whether the equation has one solution, no solution, or infinitely many solutions.
7. $-2(-x-1)=2 x+2$
8. $\frac{1}{4}(12 x-10)=3 x+2$

In Exercises 9 and 10, solve the equation by graphing. Check your solutions.
9. $|x+2|=|5-x|$
10. $3|x-1|=|2 x+8|$

In Exercises 11 and 12, use a graphing calculator to solve the equation.
11. $0.6 x-1.1=0.5 x-0.4$
12. $1.3 x+0.8=2.5 x-0.4$
13. Determine one set of values of $a$ and $b$ of the equation $2 x-3=a x+b$ in each situation.
a. The equation has no solution.
b. The equation has infinitely many solutions.
c. $x=4$ is a solution.
14. You need to hire a taxi. Taxi A charges $\$ 9.25$ plus $\$ 1.50$ per mile. Taxi B charges $\$ 10.50$ plus $\$ 1.25$ per mile. Use a graphing calculator to find the number of miles for which the total costs are the same for each taxi.

