**Solving Systems of Equations by Graphing**

Graph each system of equations by hand to find the solution. Then check by substituting into each equation.

1. $y=-2x+7$ 2. $y=-3x-1$

 $y=3x-8$ $y=x+7$



Solution: Solution:

Check: Check:

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

 $y=2x-6$ $y=\frac{1}{4}x-7$



Solution: Solution:

Check: Check:

5. $y=-\frac{3}{2}x+2$ 6. $y=\frac{2}{3}x-3$

 $y=\frac{1}{2}x+6$ $y=\frac{4}{6}x+2$

 

Solution: Solution:

Check: Check:

7. $y=\frac{1}{2}x+1$ 8. $y=-4x+1$

 $y=\frac{3}{6}x+1$ $y=-3x-5$

 

Solution: Solution:

Check: Check:

1. Which systems in 1–8 have no solution? Which have an infinite number of solutions? How can you tell?