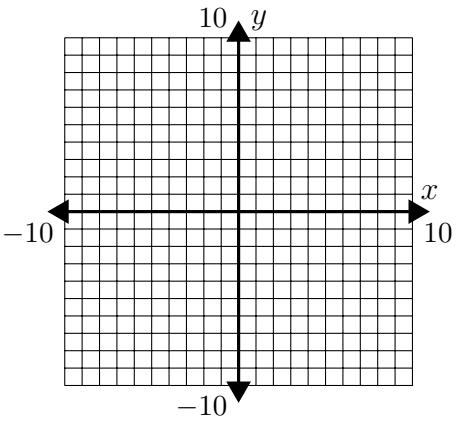
Extended Algebra 1 Name:_____

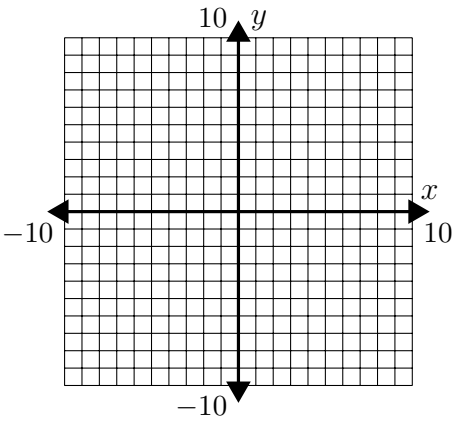
Systems of Equations Worksheet 3

Graph each system of equations and write the point of intersection. If there is no point of intersection because the lines are parallel, write "no solutions." If there is no point of intersection because the equations create the same line, write "infinite solutions."

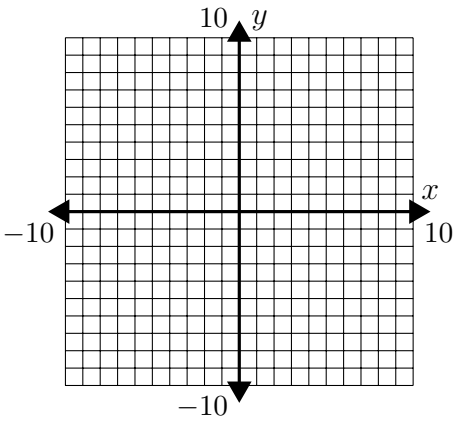
1. $\begin{cases} x = 9 \\ y = -\frac{1}{3}x + 1 \end{cases}$



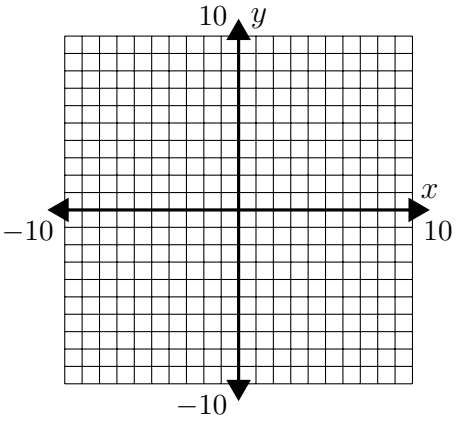
2. $\begin{cases} y = 2x + 3 \\ y = \frac{3}{4}x + 3 \end{cases}$



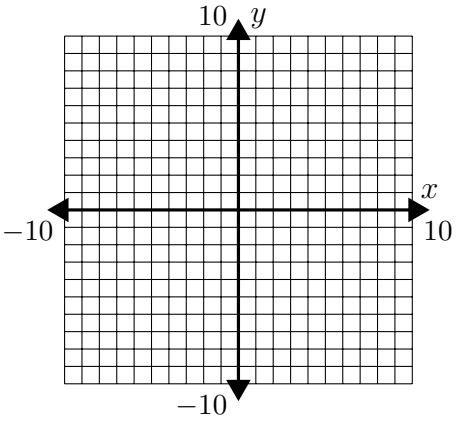
3. $\begin{cases} y = -3x + 6 \\ y = \frac{5}{3}x + 6 \end{cases}$



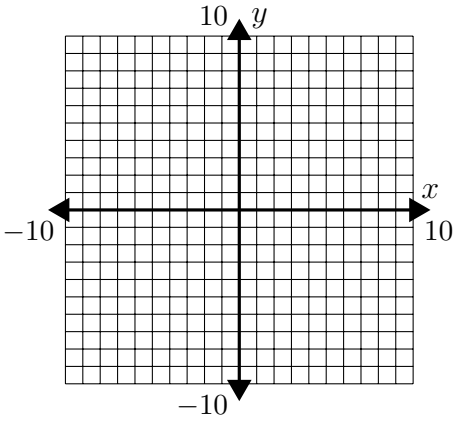
4. $\begin{cases} y = \frac{1}{2}x + 7 \\ y = -x - 8 \end{cases}$



5. $\begin{cases} y = 6 \\ y = 2x - 2 \end{cases}$



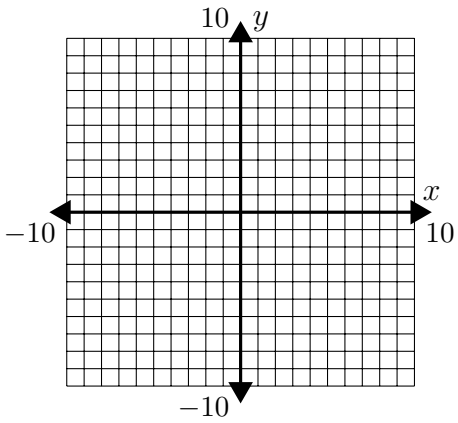
6. $\begin{cases} y = x - 5 \\ y = \frac{1}{2}x - 1 \end{cases}$

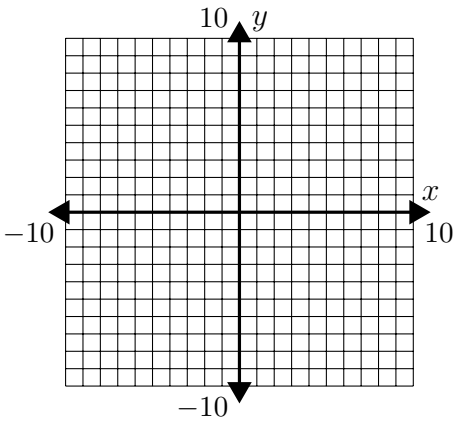


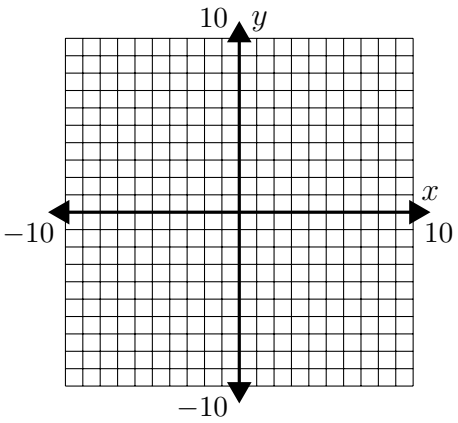
7. $\begin{cases} x - y = 0 \\ y = 5 \end{cases}$

8. $\begin{cases} x = 2 \\ x = 6 \end{cases}$

9. $\begin{cases} y = 10 \\ 5x - 5y = -20 \end{cases}$







10. $\begin{cases} x - 5y = -40 \\ x - y = -4 \end{cases}$

11. $\begin{cases} 3x - 2y = 14 \\ 2x - y = 7 \end{cases}$

12. $\begin{cases} x + 3y = 30 \\ 4x - 3y = 0 \end{cases}$