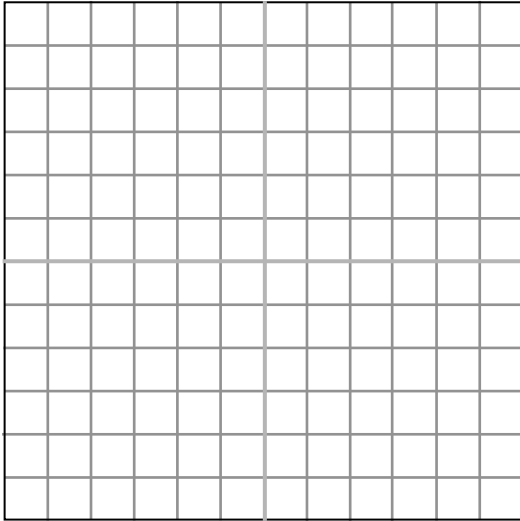


### 3.3 Solving Systems of Equations by Graphing

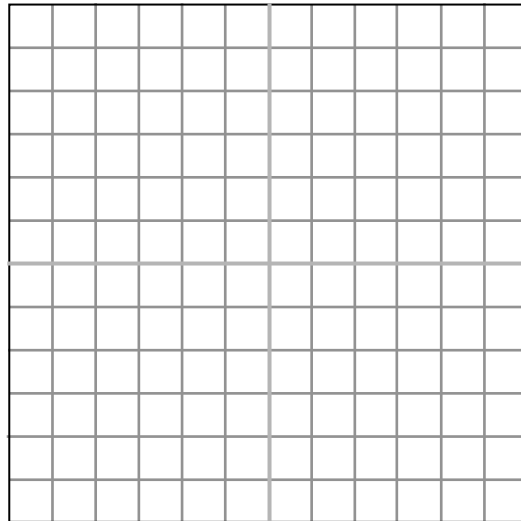
Name \_\_\_\_\_

Solve by graphing. State the system solution category.

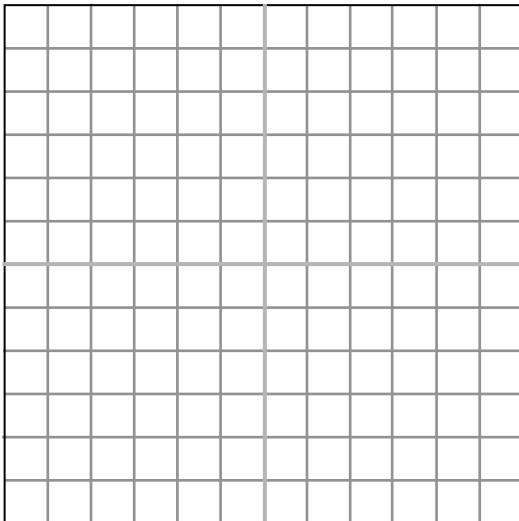
1. 
$$\begin{cases} y = 2x - 2 \\ y = x + 1 \end{cases}$$



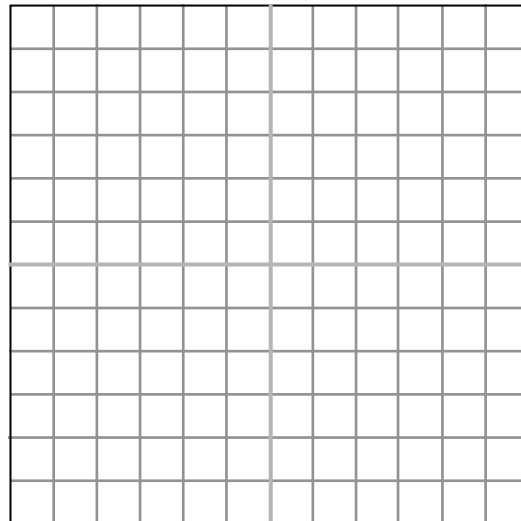
2. 
$$\begin{cases} y = 4x + 3 \\ y = -x - 2 \end{cases}$$



3. 
$$\begin{cases} y = -\frac{1}{2}x - 1 \\ y = \frac{1}{4}x - 4 \end{cases}$$



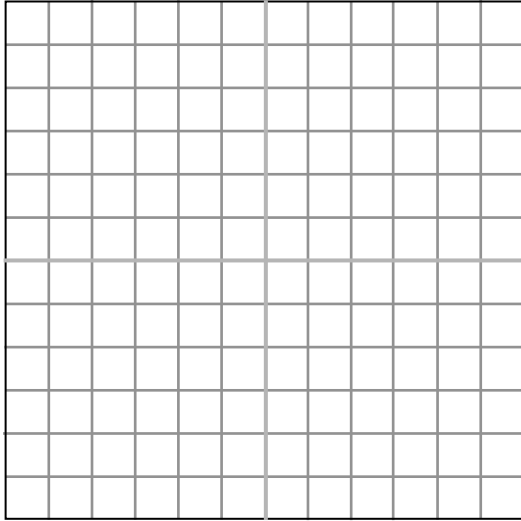
4. 
$$\begin{cases} y = 3x - 4 \\ y = -\frac{1}{2}x + 3 \end{cases}$$



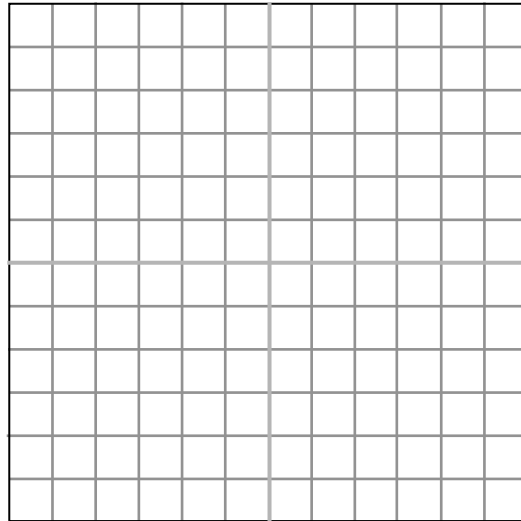
Answers: 1.  $\{(3, 4)\}$ , consistent and independent; 3.  $\{(4, -3)\}$ , consistent and independent

Solve by graphing. State the system solution category.

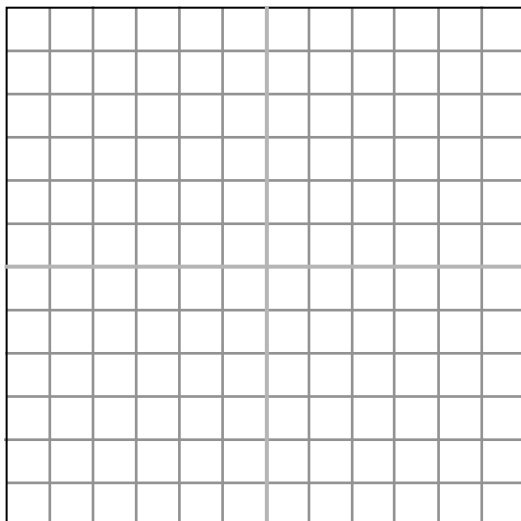
5. 
$$\begin{cases} y = -2x - 2 \\ y = -2x + 3 \end{cases}$$



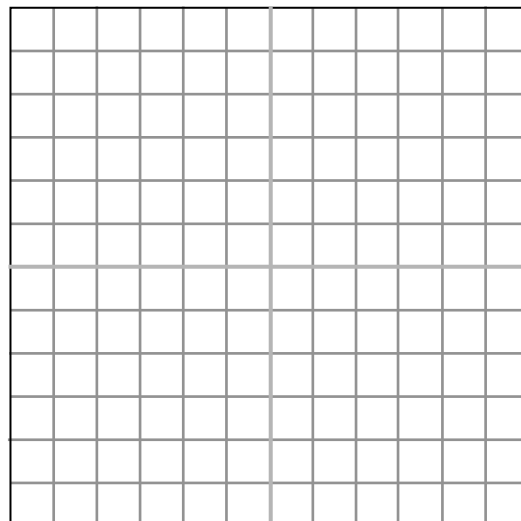
6. 
$$\begin{cases} y = x - 5 \\ y = x + 1 \end{cases}$$



7. 
$$\begin{cases} 3y = x - 6 \\ y = \frac{1}{3}x - 2 \end{cases}$$



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



Answers: 5.  $\emptyset$ , inconsistent; 7.  $\{(x, y) \mid y = \frac{1}{3}x - 2\}$ , consistent and dependent