## Solving Systems by Equivalent Forms Method

Decide whether it is easier to write each equation in equivalent $y=$ $m x+b$ form or equivalent $x=k y+c$ form. Then, write each equation in the form you chose.

1. $x+y=3$
2. $x-y=-5$
3. $2 x+y=-1$
4. $x-2 y=8$
5. $9 x+6 y=12$
6. $-x+4 y=10$
7. In parts (1)-(6), how did you decide which form to use?

Solve each system by writing the equations in $y=m x+b$ or $x=k y+$ $c$ form and then using the Equivalent Forms method.

1. $\left\{\begin{array}{l}x+y=3 \\ x-y=-5\end{array}\right.$
2. $\left\{\begin{array}{l}3 x-y=30 \\ x+y=14\end{array}\right.$
3. $\left\{\begin{array}{l}x+6 y=15 \\ -x+4 y=5\end{array}\right.$
4. $\left\{\begin{array}{l}x-y=-5 \\ -2 x+2 y=10\end{array}\right.$
5. What do you notice about the systems that makes this method a good one to use?
6. Describe the steps needed in using this method to solve a system.
7. What does it mean for two equations to be equivalent?
8. What does it mean to solve a linear system?
