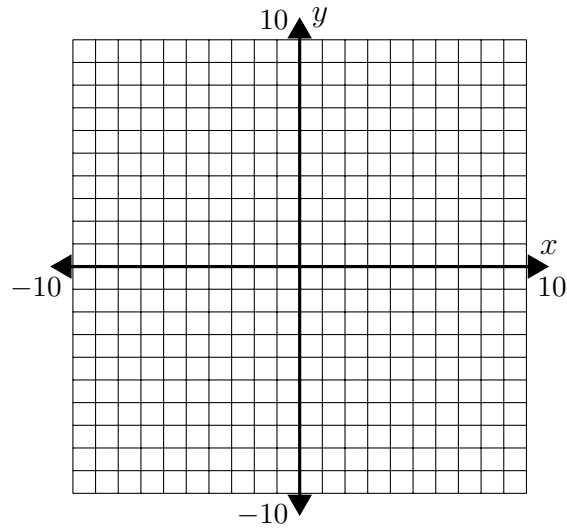


**Systems of Equations Worksheet 21**

1. Consider the following system of equations:

$$\begin{cases} y = x + 1 \\ y = -x - 7 \end{cases}$$

(a) Solve the system of equations *by graphing*.



(b) Solve the system of equations *using substitution*.

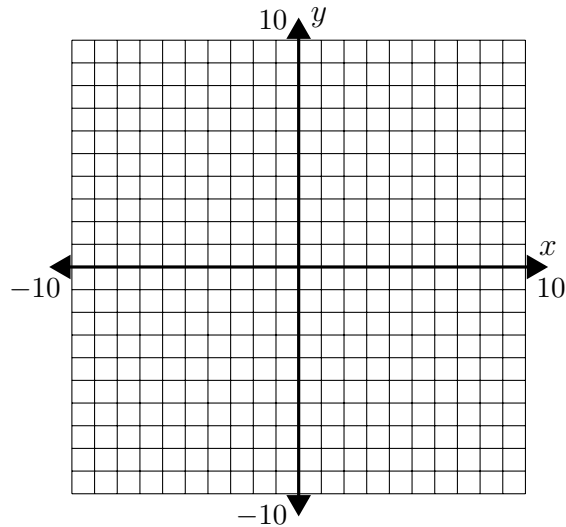
(c) Solve the system of equations *using elimination*.

(d) Which of the above three methods is easiest? Which is hardest? Use complete sentences to explain your choices.

2. Consider the following system of equations:

$$\begin{cases} 8x + 10y = 75 \\ 3x - 5y = -20 \end{cases}$$

(a) Solve the system of equations *by graphing*.



(b) Solve the system of equations *using substitution*.

(c) Solve the system of equations *using elimination*.

(d) Which of the above three methods is easiest? Which is hardest? Use complete sentences to explain your choices.