

Reviewing Substitution

- First, we replace one of the variables with the other one
- Then we solve for our second variable
- Then we solve for the first variable

Try the following problems: They will each have a whole number solution for x and y .

1) $y = 2x$
 $5x - y = 33$

2) $x = -4y$
 $12y + x = 48$

3) $2x = 4y$
 $13y + x = 30$

4) $-3x = y$
 $x + y = 14$

For these problems you will need to solve for either x or y first.

5) $x - y = 0$
 $4x + y = 25$

6) $4x = 8y$
 $3x - y = 20$

7) $x + y = 1$
 $8y + x = 15$

8) $x = 2y$
 $1.5x + y = 8$