

Ch. 7.2 Substitution p. 376

①

$$y = 3x$$

$$x + 2y = -21$$

$$x + 2(3x) = -21$$

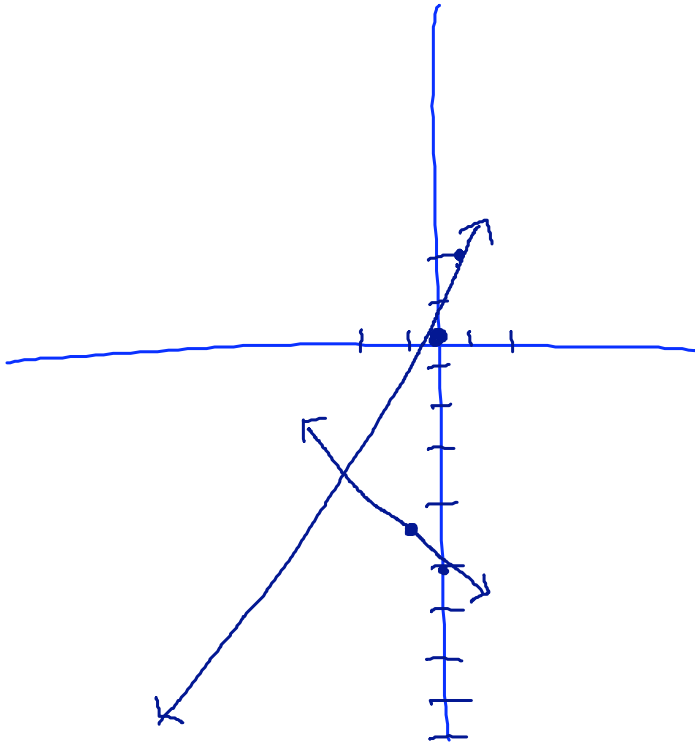
$$x + 6x = -21$$

$$\frac{7x}{7} = \frac{-21}{7}$$

$$x = -3$$

$$(-3, -9)$$

$$y = 3(-3)$$
$$y = -9$$



$$y = 3x$$

$$x + 2y = -21$$

$$-x \quad -x$$

$$\frac{2y}{2} = \frac{-x - 21}{2}$$

$$y = -\frac{1}{2}x - \frac{21}{2}$$

②

$$x = 4y$$

$$4x - y = 75$$

$$4(4y) - y = 75$$

$$16y - y = 75$$

$$15y = 75$$

$$y = 5$$

$$x = 20$$

(20, 5) if you are working ONE variable

find ordered pair.

④ Start Solving for Variable  
⑤ Plug answer into original eq.

## Steps

① Subst. one equation into the other

② Rewrite new equation

③ Check to see

if you are working ONE variable

④ Start Solving for Variable

⑤ Plug answer into original eq.



$$3x - 5y = 11$$

$$x - 3y = 1$$

$$\begin{array}{r} x - 3y = 1 \\ + 3y = +3y \\ \hline x = 3y + 1 \end{array}$$

$$3(3y + 1) - 5y = 11$$

$$9y + 3 - 5y = 11$$

$$4y + 3 = 11$$

$$4y = 8$$

$$y = 2$$

$$x = 3y + 1$$

$$x = 3(2) + 1$$

$$x = 6 + 1$$

$$x = 7$$

$$(7, 2)$$

## Hmwk

P. 379 #12-28 even

P. 381 Practice Quiz #1 all

Ch. 6 Test Corrections for  
anyone.

Get Ch. 6 Test Signed!