

Section 7-2

Solving systems of equations by using SUBSTITUTION:

• Take information from one equation and place it into the other equation.

Solve this equation using subsitution: y = 3.5x - 12 y = 7.2x + 17.6 Solve this equation using subsitution: y = 3.5x - 12 y = 7.2x + 17.6 3.5x - 12 = 7.2x + 17.6 -3.5x - 3.5x -1/2 = -3.7x + 17.6 -17.6 -17.6 -29.6 = -17.6 -29.6 = -17.6 -29.6 = -17.6 -3.7x -3.7 = -3.7x -3.7 = -3.7x -3.7 = -3.7xNow find y: y = 3.5(8) - 12 = 16

Solve.
$$4x - 3(2x - 10) = 24$$

 $4x - 6x + 30 = -24$
 $-2 + 30 = -24$
 $-30 = -36$
 $-2x = -6$
 $-2 = -2$
 $x = -3$

Solve this system of equations using SUBSTITUTION

