## WS - Solving Systems by Elimination

Tuesday, January 08, 2013 7:44 AM

① 
$$2+y=5$$
  
+ $(3x-y=7)$   
 $4x=12$   
 $(x=3)$ 

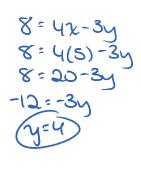
Solution: (3,2)

(2) 
$$2x+y=3$$
  $2x+y=3$   
 $+(-2x+5y=-9)$   $2x+(-1)=3$   
 $6y=-6$   $2x=4$   
 $y=-1$   $x=2$   
Solution  $(2,-1)$ 

3 
$$3k+5y=0$$
  
 $+(2k-5y=-25)$   
 $5k=-25$   
 $(k=-5)$ 

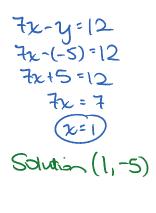
$$y=0$$
 3k+5y=0  
 $y=-25$ ) 3(-5)+5y=0  
 $z=-25$  -15+5y=0  
 $z=-5$ ) 5y=15  
Solution (-5,3)

(5) 
$$2x-y=-5$$
 $4(-2x-5y=11)$ 
 $2x-(-1)=-5$ 
 $-6y=6$ 
 $2x+1=-5$ 
 $2x=-6$ 
Solution  $(-3,-1)$ 



$$\begin{array}{cccc} (1) & -6 & = & 3 \times t & & -6 & = & 3 \times t & \\ + & (10 & = & -5 \times - & ) & -6 & = & 3 & (-2) + & \\ & & 4 & = & -2 \times & -6 & = -6 + & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$$

(9) 
$$2+2y=15$$
  $2+2y=15$   $3+2y=15$   $2y=12$   $2y=12$   $2+2y=15$   $4(5x-2y=3)$   $6x=18$  Solution (3.16)



① y=3x+13 2x=y-9 y=3x+13 -3x+y=13 +(2x-y=-9) -x=4 (x=-4)

y=3k+13 y=3(-4)+13 y=-12+13

Solutia (-4,1)

(2) 4x +12=-7y
-y+12=4x
4x+7y=-12
+(-4x-y=-12)
6y=-24

4x +12 = -7y 4x +12 = -7(-4) 4x +12 = 28 4x = 16 x=4)

Solutia (4,-4)