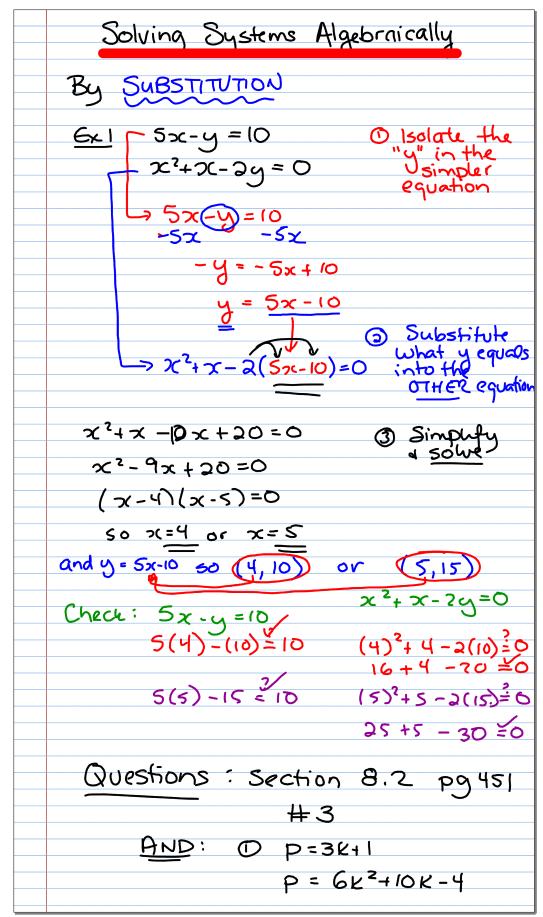
## Systems of Equations by Elim and Subs.notebook



Solving by Elimination: The goal is to ELIMINATE one of the variables by adding the two equations together. · Start by writing one equation above the other and lining up like terms. Ex: 5x - y = 10 and  $x^2 + x - 2y = 0$  $\begin{array}{c} \chi^{2} + \chi - 2y = 0 & \text{To end} \\ -2(5\chi - y = 10) & \text{the 'y's ply} \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & &$ To chiminate  $x^2 + x - 2y = 0$ -10x +2y =-20  $x^2 - 9x = -20$ Then, solve it :  $x^2 - 9x + 20 = 0$ (x-4)(x-5)=0x=4 or 5 then go back \* figure out y...

 $2\left(\frac{3}{2}x^{2} - \frac{1}{2}x - \frac{1}{2}y = 1\right) \Rightarrow 3x^{2} - x - \frac{1}{2}y$  $2\left(\frac{3}{2}x^{2} + 2x - \frac{1}{2}y = 2\right) \Rightarrow (3x^{2} + 4x - \frac{1}{2}y)$ 6  $c - y^2 = 2$  x + 4 = -4-5x = -2x=2 then go find 5 y & check!! Solve using elimination: Pg 452 # 4 and # 5 Use elin. on subst. ~ whichever you prefer Use elin.