

Unit 3 / Day 3



d. Solve the same system algebraically.  $y = \frac{1}{2}(x+3)^{-2}$ (y = x+5)  $\frac{1}{2}(x+3)^{2}-2 = x+5$   $\chi \cdot \frac{1}{2}(x+3)^{2} = (x+7)^{2}$ (x+3)(X+3)  $\chi^{2} + 6\chi + 9 = 2\chi + 14$  $\chi^{2} + 4\chi - 5 = 0$ (x+s)(x-h)=0X=1 x= -5 y=0 y= 0 ره' 2-(1,6







EX #3: Solve the following system algebraically. -7725-3+4-5  $\int y = 2\sqrt{x+4} - 5$ -7/-3 x-y=4x - 1(2x + 4 - 5) = 4 $x - 2\sqrt{x+4} + 5 = 4$  $\begin{array}{c} x - 2\sqrt{x+4} = -1 \\ -x \\ (-2\sqrt{x+4}) = (-x-1) \end{array}$ (-x-1)(-x-1)  $4(x+4) = x^2 + ax + 1$  $4x+16=\chi^{2}+2x+1$  $\chi^2 - 2\chi - 15 = 0$ -15 2 (x-5)(x+3) = 0X=5 X=-3 5-4=4 -3-4=4 -y=7 y=1 y=-7 + ext. (>>> ((5,1) 7)







Sep 18-10:27 AM