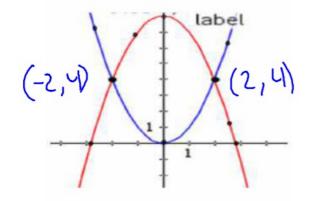
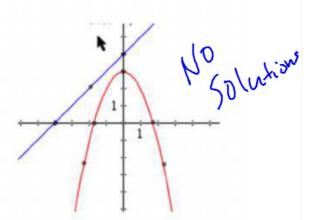
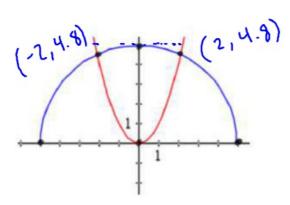
Solving Systems of Quadratic and Linear Equations

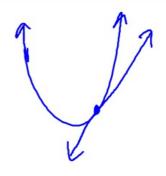
Notes and Assignment

Name:









USE Substitution

Solve each system of equations algebraically.

$$\frac{-1}{0=x^{2}-2x+1}$$

2)
$$x^{2} + y = 5$$

 $-y = x - 3$ \Rightarrow $y = 5$
 $+(-x + 3) = 6$

$$\chi^2 - \chi + 3 = 5$$

 $-5 - 5$
 $\chi^2 - \chi - 3 = 0$

$$X_{2}=0$$
 $X_{1}=0$
 $(x-3)(x+1)=0$
 $X_{3}-x-y=0$

3)
$$y = 27 - x^2$$

$$\begin{array}{c}
y = 2x^{2} \\
27 - \chi^{2} = 2\chi^{2} \\
-2\chi^{2} - 2\chi^{2}
\end{array}$$

$$-3x^{2} + 27 = 0$$

$$-3x^{2} + 27 = 0$$

$$-3x^{2} = -27$$

$$-3x^{2} = -37$$

$$\sqrt{x^{2} = -9}$$

$$y=2(3)$$

 $y=2(9)$
 $y=18$
 $(-3,18)$

4)
$$y = x^2 + 4x - 2$$

$$y = x + 4x - 2$$
$$y = 6x - 3$$

6)
$$y = -x^2 + 9$$
 $y = x^2 + 1$

$$y = x^2$$
$$3x = y + 2$$

$$x^2 - y = 3$$
$$2x - y = 3$$

