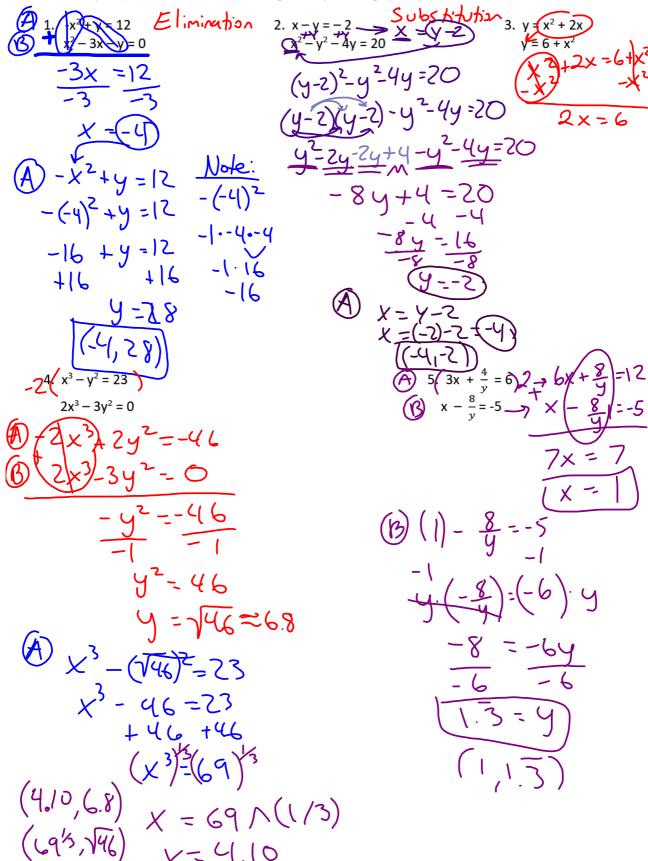
Solving Non Linear Systems Practice Worksheet Name:

Period:

Solve the system, show all work - must do one algebraically and one graphically.



Challenge: When you use elimination or substitution to solve for these, you will end up with a quadratic squared variable. To solve these for that first variable there is a formula below is it to solve for x, it would be the same formula if you have y² and are solving for y! However, there will be two solutions, so you will need to find the other coordinate variable for each! A, b, and c come from the parent function $ax^2 + bx + c = 0$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

6.
$$x^{2}+y=2$$
 $x=3\pm 5$ 7. $x^{2}+y^{2}=10$ $x^{2}+2y^{2}-7y=0$ $2x^{2}-3y=2$ $x=2$ $x=2$ $x=-0.5$ $2x^{2}-3y-2=0$ $x=2$ $x=2$ $x=-0.5$ $x=2$ $x=2$ $x=-0.5$ $x=2$ $x=2$ $x=-0.5$ $x=2$ $x=2$ $x=2$ $x=2$ $x=2$ $x=2$ $x=3+3=2$ $x=2$ $x=3+3=2$ $x=3+$

Must Complete: Solve these non-linear systems by graphing! The graphs are given, label the point/s of intersection.

