Algebra 2 Name _____
Concept Practice: Date _____ Period _____
Solving Nonlinear Systems

Solve the following systems of equations. Please remember that because at least one equation is non-linear, there can be more than one solution. Write answers in ordered pair form! If you need assistance, please check on the website for an additional video explanation.

1. $x + 3y = 19$
$(x+5)^2 + (y+2)^2 = 100$

1. _____

2. $x^2 + (y-4)^2 = 49$
$2x - 2y = 6$

2. _____

3. $(x-3)^2 + 2y = 0$
$3x + y = 13$

3. _____

4. $y = -(x+2)^2 + 5$
$y = -3x - 1$

4. _____

5. $(x+3)^2 + (y-2)^2 = 81$
$x + y = 8$

5. _____

6. $(x-5)^2 + (y-2)^2 = 64$
$x - y = -5$

6. _____

Algebra 2: Concept Practice – Solving Nonlinear Systems Worksheet Answers

1. (-5, 8) and (1, 6)
2. (7, 4) and (0, -3)
3. (5, -2) and (7, -8)
4. (-2, 5) and (1, -4)
5. (-3, 11) and (6, 2)
6. (5, 10) and (-3, 2)