

Honors Algebra 2
Solving Non-Linear Systems

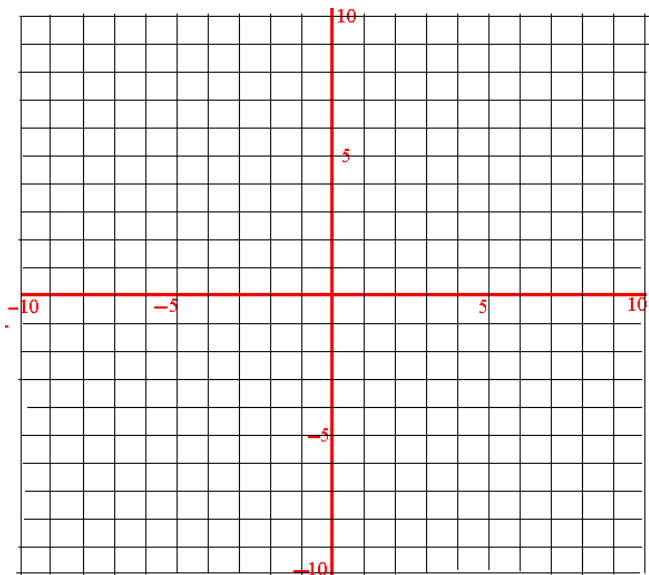
Name: _____

Date: _____ Period: _____

Solve each system of non-linear equations graphically and algebraically.

Graphically.

1A.) $y = x^2 + 4x - 7$
 $2x - y = -1$



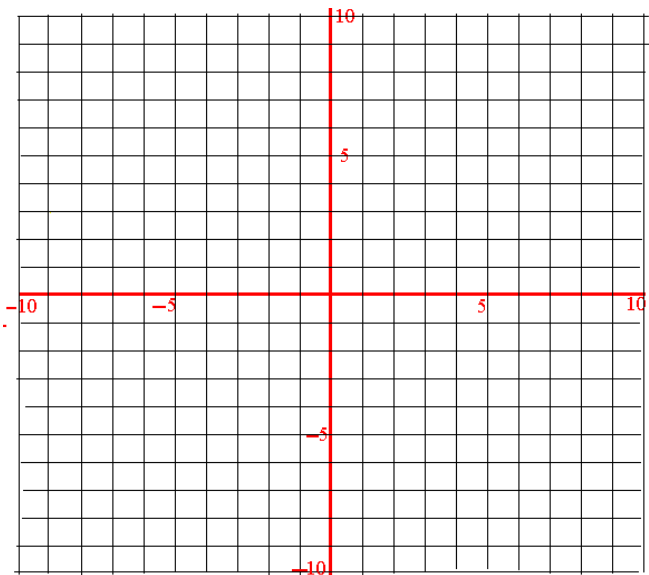
Solution(s): _____

Algebraically.

1B.) $y = x^2 + 4x - 7$
 $2x - y = -1$

Solution(s): _____

2A.) $x - y = -4$
 $x^2 - y = -2$



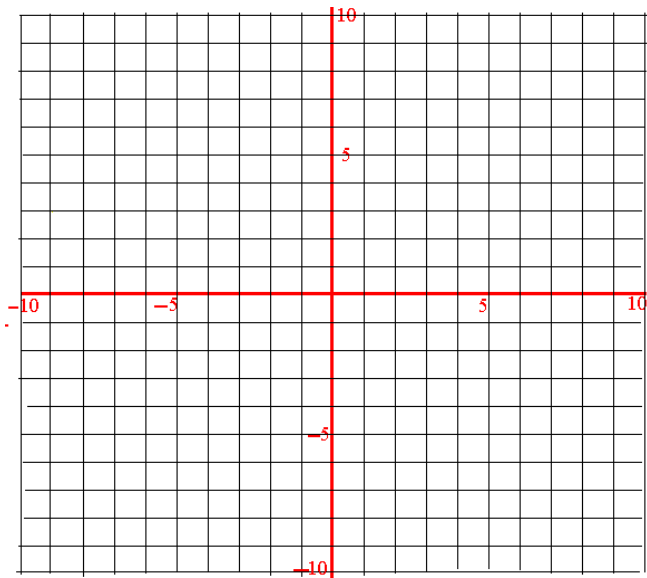
Solution(s): _____

2B.) $x - y = -4$
 $x^2 - y = -2$

Solution(s): _____

Graphically.

3A.) $x - 2y = 4$
 $x^2 - y = 0$



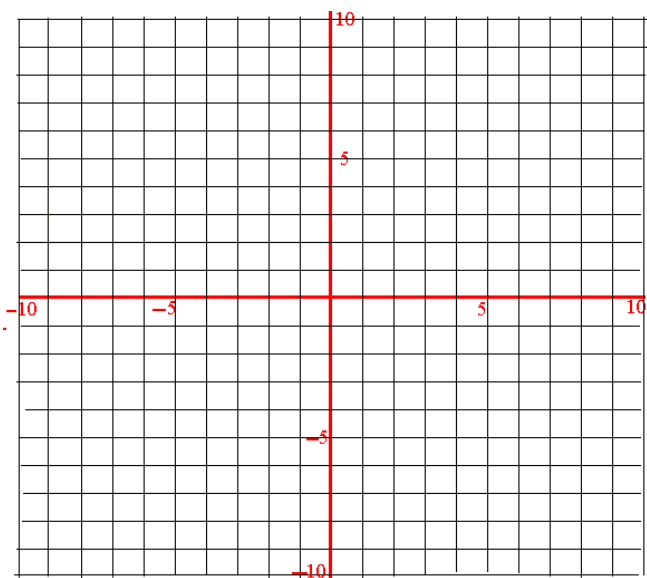
Solution(s): _____

Algebraically.

3B.) $x - 2y = 4$
 $x^2 - y = 0$

Solution(s): _____

4A.) $-4x + 2y + 14 = 0$
 $y = \frac{1}{2}(x - 2)^2 - 3$



Solution(s): _____

4B.) $-4x + 2y + 14 = 0$
 $y = \frac{1}{2}(x - 2)^2 - 3$

Solution(s): _____