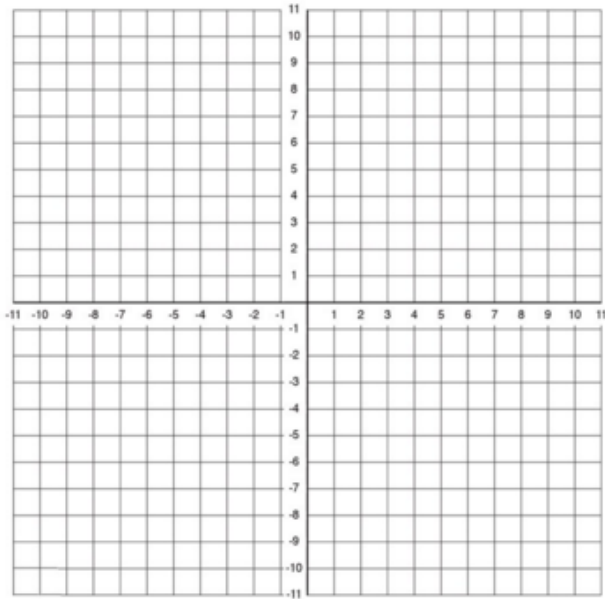Name: _____   Period: _____   Date: _____

Solving Systems of Linear and Quadratic Equations

Answer: (1/3, 7/3) & (–4, –41)

#1 Solve by **Graphing**

$y - 1 = x^2$

$y = x + 1$

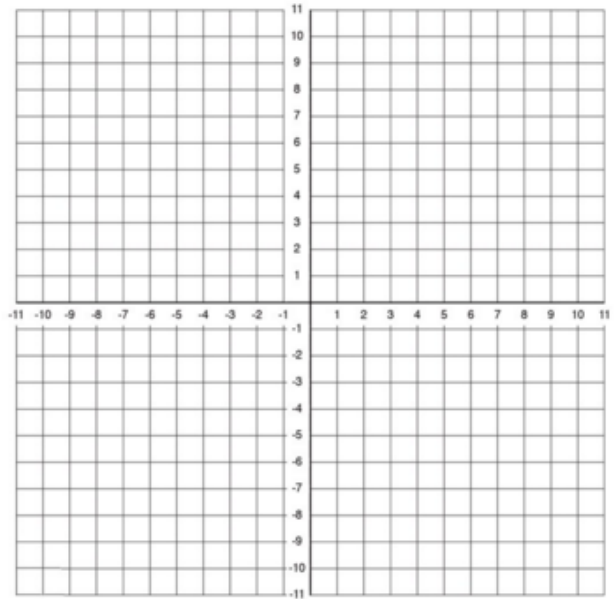Answer: (–1/2, 1/2) & (2, 8)

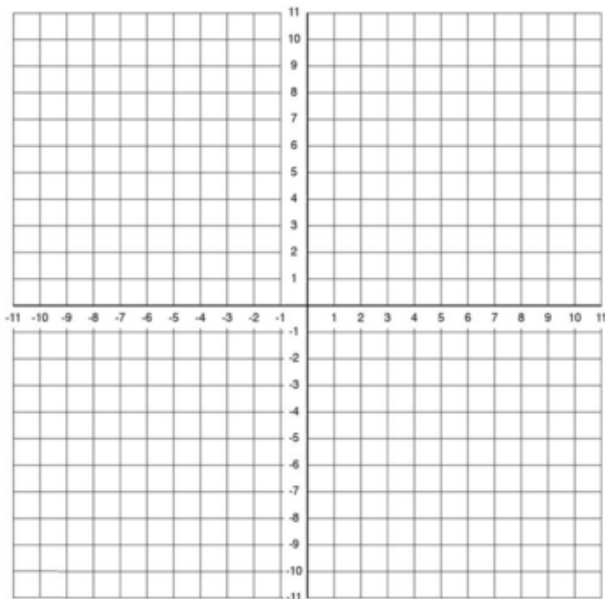#___ Solve by **Graphing**

$y - 2x = x^2 + 5$

$y - 1 = -2x$

Answer: (–7, 100) & (–10, 130)

#____ Solve by **Graphing**

$-4 = 3x - y$

$y + x^2 = 0$

Answer: (0, 1) & (1, 2)

#____ Solve by **Elimination**

$x + y = 3$

$y = x^2 + 1$

Answer: (–10, 20) & (12, 42) #____ Solve by **Elimination** $y + 20 = 5x$ $y = x^2 - 5x + 5$	Answer: (–2, 5) #____ Solve by **Elimination** $x^2 - x - 90 = y$ $y = x + 30$
Answer: (–2, 5) & (1, 2) #____ Solve by **Substitution** $y = x^2 - 2x - 6$ $y - 4x = 10$	Answer: (5, 5) #____ Solve by **Substitution** $y = x^2 + 7x + 100$ $y = -10x + 30$
Answer: (–2, 2) & (8, 42) #____ Solve by **Substitution** $3x - y = -2$ $2x^2 = y$	Answer: No Solution #____ Solve by **Substitution** $y = 3x^2 + 21x - 5$ $-10x + y = -1$