

Practice: Systems of Equations, Lines & Quadratics

Date_____ Period_____

Solve each system of equations.

$$\begin{aligned} 1) \quad & x^2 + y^2 - 17x - 3y - 38 = 0 \\ & 2x + y + 4 = 0 \end{aligned}$$

$$\begin{aligned} 2) \quad & x^2 + y^2 - 25x + 4y - 31 = 0 \\ & -2x + y - 3 = 0 \end{aligned}$$

$$\begin{aligned} 3) \quad & x^2 + y^2 + 8x - 2y + 12 = 0 \\ & x + 2y - 3 = 0 \end{aligned}$$

$$\begin{aligned} 4) \quad & x^2 + y^2 + x + 3y = 0 \\ & -2x + y - 2 = 0 \end{aligned}$$

$$\begin{aligned} 5) \quad & x^2 + y^2 + 18x + 61 = 0 \\ & x + 2y = 1 \end{aligned}$$

$$\begin{aligned} 6) \quad & 3x^2 + 5y^2 + 2x + 117y + 81 = 0 \\ & x - 2y = -3 \end{aligned}$$

$$\begin{aligned} 7) \quad & x^2 + y^2 + 20x + 20 = 0 \\ & 2x - y = 0 \end{aligned}$$

$$\begin{aligned} 8) \quad & 4x^2 + 2y^2 - 78x - 3y + 21 = 0 \\ & 2x + y + 3 = 0 \end{aligned}$$

$$\begin{aligned} 9) \quad & 5x^2 + y^2 + 2x + 52y - 69 = 0 \\ & x - y = -3 \end{aligned}$$

$$\begin{aligned} 10) \quad & 3x^2 + y^2 + 15x - y - 8 = 0 \\ & x + y - 4 = 0 \end{aligned}$$