

Number:
Title:

Textbook Section:

Solve each system of nonlinear equations.

$$1. \begin{cases} 3x^2 + 4y = 17 \\ 2x^2 + 5y = 2 \end{cases}$$

$$2. \begin{cases} \frac{4}{x^2} + \frac{6}{y^4} = \frac{7}{2} \\ \frac{1}{x^2} - \frac{2}{y^4} = 0 \end{cases}$$

$$3. \begin{cases} x^2 + y^2 = 10 \\ y = x + 2 \end{cases}$$

$$4. \begin{cases} 4x^2 - 3xy + 9y^2 = 15 \\ 2x + 3y = 5 \end{cases}$$

$$5. \begin{cases} x + \log_{16}(y+1) = \frac{1}{2} \\ x + \log_{16}(y) = \frac{1}{4} \end{cases}$$