

Systems of Non-Linear EQ

$$\langle Ex\ 1 \rangle \quad \left\{ \begin{array}{l} x^2 + y^2 = 4 \\ y = x^2 + 2 \end{array} \right\}$$

$$\langle Ex\ 2 \rangle \quad \left\{ \begin{array}{l} y = 2x^2 - 3x - 1 \\ y = x^2 - 2x + 5 \end{array} \right\}$$

$$\langle Ex\ 3 \rangle \quad \left\{ \begin{array}{l} 3x^2 - 2y^2 = 26 \\ x^2 - y^2 = 5 \end{array} \right\}$$

$$\langle Ex\ 4 \rangle \quad \left\{ \begin{array}{l} x^2 + y^2 = 16 \\ x - 2y = -4 \end{array} \right\}$$

$$\langle Ex\ 5 \rangle \quad \left\{ \begin{array}{l} 4x^2 + y^2 = 12 \\ y = 4x^2 \end{array} \right\}$$

$$\langle Ex\ 6\rangle \quad \left\{ \begin{array}{l} xy = -8 \\ 3x + 5y = 2 \end{array} \right\}$$

$$\langle Ex\ 7\rangle \quad \left\{ \begin{array}{l} x - y = 12 \\ x^2 + xy + y^2 = 84 \end{array} \right\}$$

$$\langle Ex\ 8\rangle \quad \left\{ \begin{array}{l} x^2 - 8y^2 = 14 \\ xy = 20 \end{array} \right\}$$