## 8.6 Systems of Non-Linear Equations

▼ Example 1: Solve with Substitution

$$egin{cases} x^2 = 2y+10\ 3x-y=9 \end{cases}$$

▼ Example 2: Solve with Elimination

$$egin{cases} x^2=2y+10\ 3x-y=9 \end{cases}$$

▼ Example 3A: Solve with Substitution (Traditional)

$$egin{cases} y=x^2+3\ x^2+y^2=9 \end{cases}$$

▼ Example 3B: Solve with Substitution (Non traditional)

$$egin{cases} y=x^2+3\ x^2+y^2=9 \end{cases}$$

▼ Example 4: Solve with Elimination

$$egin{cases} y=x^2+3\ x^2+y^2=9 \end{cases}$$

▼ Example 5: Solve with Substitution

$$egin{cases} x-y=3\ (x-2)^2+(y+3)^2=4 \end{cases}$$

▼ Example 6: Solve with Elimination

$$egin{cases} 4x^2+y^2 = 13\ x^2+y^2 = 10 \end{cases}$$