

系級：\_\_\_\_\_ 學號：\_\_\_\_\_ 姓名：\_\_\_\_\_

試求解下述常微分方程式

$$1. \frac{y^2}{x} y' = 1 + x^2$$

$$2. x \sin \theta d\theta + (-2x^2 \cos \theta + \cos \theta) dx = 0$$

$$3. xy' = \frac{y^2}{x} + y$$

$$4. y' = \frac{x - 4y + 5}{3x - 12y + 2}$$