

$$S.7) (x+y+1) dy - (y-x-1) dx = 0 \quad \text{g.c. ?}$$
$$\left[ (x+1)^2 + y^2 = c e^{\left(-2 \operatorname{arctan} \frac{y}{x+1}\right)} \right]$$

$$S.8) xy' + 3y = 6x^3 \quad \text{g.c. ?}$$

$$\left( y = c x^{-3} + x^3 \right)$$

$$S.9) y' - \frac{y}{x} = x^n, \quad n \neq 0 \quad \text{g.c. ?}$$

$$\left( y = cx + \frac{1}{n} x^{n+1} \right)$$

$$S.10) y^2 \ln y dx = (1-xy) dy \quad \text{g.c. ?}$$

$$\left( x \ln y + \frac{1}{y} = c \right)$$