

S4 GROUPE n

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Exercice 1:

1. $y' = \sin(y)$
2. $x^2 y' = e^y$
3. $(x^2 + 1)y' + 3xy = x^2$
4. $y' + y = 2e^x + 4 \sin(x)$
5. $y' - 2y = 2x^3 + x$ ou $y(3) = 1$
6. $y' + 2xy = e^{x-x^2}$
7. $y' \cos(2y) - \sin(y) = 0$
8. $y' - 2y = 2x^3 + x$ ou $y(3) = 1$

Exercice 2:

1. $xy' = y + 3xy^2$
2. $y' + \frac{y}{x+1} = \frac{1}{2}(x+1)^3 y^3$
3. $y'(1 - \sin(s) \cos(x)) + y^2 \cos(x) - y' + \sin(x) = 0$
Si $y = \cos(x)$ est une solution particuliere
4. $y = xy' + (y')^3$