

S4 - 17B. Devoir 1

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Exercice 2:

Resolitoqm des equations differentielles non lineraires de 2nd ordre

1. (E): $y' = xy' + \sqrt{1 + (y')^2}$

2. (E): $x = yy' + (y')^3$

3. (E): $2xy' = y + y'$

Exercice 3:

Resolution des equations differentielles du second ordre:

1. (E): $xy' = y + 3xy^2$

2. (E): $y' + \frac{y}{x+1} = \frac{1}{2}(x+1)^3y^3$

3. (E): $y'(1 - \sin(s) \cos(x)) + y^2 \cos(x) - y' + \sin(x) = 0$
si $y = \cos(x)$ est une solution particuliere
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4. (E): $y = xy' + (y')^3$