

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): $y'' + y = xe^x + 2e^{-x}$ ou $y(0) = y'(0) = 1$

2. (E): $y'' - 4y' + y = xe^{2x}$

3. (E): $y'' + 2y' + 3y = \cos x$ ou $y(0) = y'(0) = 0$

4. (E): $y'' - 4y + 13y = \cos(3x)$