exercice 3: 1 y'-3y=5 ESSM: $y'_{0}-3y=0$ solution: $y_{0}(x)=Ce^{3x}$, créel EASM: y' = 3y = 5 a = -3 et b = 5 solution particulière: $y_1(x) = \frac{5}{-3}$ Donc les solutions de l'équation y'-3y=5sont : $y(x)=Ce^{3x}-\frac{5}{3}$, Créel2/24/-44=1 a = -2 et $b = \frac{1}{2}$ ESSM: y' - 2y = 0solution: $y_0(x) = Ce^{2x}$, C réel EAST: $y' - 2y = \frac{1}{2}$ solution particulière: $y_1(x) = \frac{1}{-2} = -\frac{1}{4}$

Donc les solutions générales sont: $y(x) = Ce^{2x} - 1$ (4/ réel 3/ Aoy' = 2y - 3 (=) $y' - \frac{1}{5}y' = -\frac{3}{10}$ ESST: $y' - \frac{1}{5}y$ solution $y_0(x) = Ce^{\frac{1}{5}x}$, CreelEAST: $y' - \frac{1}{5}y' = -\frac{3}{10}$ solution particulière: $y_1(x) = \frac{-3}{10} \cdot \frac{3}{10}$

Donc les solutions sont: y/x) = Ce = x + 3, créel