Continuous assessment Test N° 2

Exercise: (./8pts) Solve the following differential equations

1.
$$(1-x)y' - xy = 0$$
, with $y > 0$, $x < 1$ and $y(0) = 1$.

2.
$$xy' - y = x^3 e^{2x}$$
, with $y > 0$ and $x > 0$.

3.
$$y'' - y' - 6y = x + e^x + e^{3x}$$
.

Good luck