a)
$$2e^{2x} - e^{x} = 1$$

Changement de variable

$$e^{2x} = (e^x)^2 = X^2$$

$$2e^{2x}-e^{x}=1$$

$$2 \times^2 - \times = 1$$

$$2 x^2 - x - 1 = 0$$
 $a = 2 b = -1 c = -1$

$$\Delta = (-1)^2 - 4 \times 2 \times (-1) = 1 + 8 = 9$$

$$X_{1} = \frac{-(-1)-3}{4} = \frac{1-3}{4} = -\frac{2}{4} = -\frac{1}{2}$$
 impossible

$$X_2 = \frac{-(-1)+3}{4} = \frac{1+3}{4} = \frac{4}{4} = 1$$

$$X = 1 \implies e^{x} = 1$$

$$e^{x} = e^{0}$$

$$x = 0 \implies S = 50$$

$$X = e^{x}$$

$$X = e^{x}$$

[X est strictement possitif]

$$X^{2} + 2X - 3 \leq 0$$
 $a = 1$ $b = 2$ $c = -3$

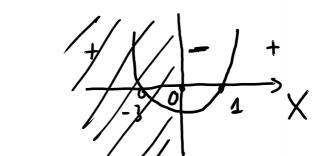
$$a = 1$$
 $b = 2$ $c = -3$

$$\Delta = 2^2 - 4 \times 1 \times (-3) = 4 + 12 = 16$$

$$X_1 = \frac{-2-h}{2} = \frac{-h}{2} = -3$$

$$X_2 = \frac{-2+h}{7} = \frac{2}{2} = 1$$

$$\Delta = 1/2 > 0$$



$$X = e^{x} = > 0 < e^{x} \le 1$$
 $\Rightarrow e^{x} > 0$ et $e^{x} \le 1$

Toujours

 $\Rightarrow e^{x} = 0$
 $\Rightarrow e^{x} = 0$
 $\Rightarrow e^{x} = 0$
 $\Rightarrow e^{x} \le 0$
 $\Rightarrow e^{x} \le 0$

$$S = \left[-\infty \right] 0$$