$$2e^{2x} - 5e^{x} + 3 = 0$$

$$D = \mathbb{R}$$

Changement de variable:

$$e^{x} = X \implies e^{2x} = X^{2}$$

$$(e^{\alpha})^{b} = e^{\alpha b}$$

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

$$\Delta = b^2 - hac = (-5)^2 - 4 \times 2 \times 3 = 25 - 24 = 1$$

$$X_1 = \frac{-b - \sqrt{\Delta}}{2\alpha} = \frac{-(-5) - 1}{4} = \frac{5 - 1}{4} = 1$$

$$X_2 = \frac{-b + \sqrt{\Delta}}{2\alpha} = \frac{5+1}{4} = \frac{6}{4} = \frac{3}{2}$$

Alors: 1)
$$Q^{x} = 1 \Rightarrow x_{1} = 0$$

2)
$$e^{x} = \frac{3}{2}$$
 => $x_{2} = \ln \left(\frac{3}{2}\right) = \ln 3 - \ln 2$