

2.86

$\frac{1}{2}$

(1)

$$2xy^3 + 3x^2y^2y' + 3e^{(x-1)y} [y + y'(x-1)] + 4y' + 2 = 0$$

$y' = 3$ (3.1.1) $y = -1$ $x = 1$ (1.3)

$$2(-1) + 3y' + 3[-1] + 4y' + 2 = 0$$

$$7y' = 3 \rightarrow y' = \frac{3}{7}$$

(2)

$$y - y_1 = m(x - x_1)$$

$$y - (-1) = \frac{3}{7}(x - 1)$$

$$y = \frac{3}{7}x - \frac{10}{7} \quad | \cdot 7$$

$$7y - 3x = -10$$