

Find the equation for the line tangent to $f(x) = \frac{e^x}{x}$ at $x = 3$.

reset

Bellwork 10/18 - Solution

$$f'(x) = \frac{xe^x - e^x}{x^2}$$

Point-Slope Form: $y - f(3) = f'(3)(x - 3)$

$$y = \left(\frac{3e^3 - e^3}{9} \right) (x - 3) + \frac{e^3}{3}$$

$$y = \left(\frac{2e^3}{9} \right) x - \frac{e^3}{3}$$

Exercise 1

Exercise 1 - Solution

Exercise 2

Exercise 2 - Solution

Exercise 3

Exercise 3 - Solution