## **9B Differentiating Exponentials**

 $e^{x}$ 

In(x)

1. Find  $\frac{dy}{dx}$  given that:

$$y = e^{3x} + 2^{3x}$$

2. Find  $\frac{dy}{dx}$  given that:

$$y = ln(x^3) + ln7x$$

3. Find  $\frac{dy}{dx}$  given that:

$$y = \frac{2 - 3e^{7x}}{4e^{3x}}$$