## **Quotient Rule**

1. 
$$\frac{d}{dx}\left(\frac{\cos x}{5^x}\right)$$

2. 
$$\frac{d}{dx}\left(\frac{\ln x}{\sec x}\right)$$

$$3. \quad \frac{d}{dx} \left( \frac{\tan x}{3x^2 - 1} \right)$$

4. What is the instantaneous rate of change at x = 3 of the function  $f(x) = \frac{2x^3 - 4x + 1}{2x - 1}$ ?

5. Find an equation of the line normal to the graph of  $y = \frac{3x-2}{2x+3}$  at point (1, 5).