

1. Find the slope of the tangent line, and the equation of the tangent line to $y = \frac{4}{x+3}$ at $x = 1$.

2. Find the slope of the tangent line, and the equation of the tangent line to $y = \frac{1}{x^2}$ at $x = 2$.

3. Find the derivative $f'(a)$ for $f(x) = \frac{3}{x+1}$

4. Find the derivative $f'(a)$ for $f(x) = \frac{1}{x^2}$