Name:_____

Find $f'(x)$:

a) $f(x) = \frac{4}{(3x^3+5)^2}$

$f(x) = 4(3x^3+5)^{-2}$

$f'(x) = -8(3x^3+5)^{-3}(9x^2)$

or $\frac{-72x^2}{(3x^3+5)^3}$

b) $f(x) = \sqrt[3]{2x^7+6x}$

$f(x) = (2x^7+6x)^{1/3}$

$f'(x) = \frac{1}{3}(2x^7+6x)^{-2/3}(14x^6+6)$

or $\frac{14x^6+6}{3\cdot\sqrt[3]{2x^7+6x}^2}$