

Derivatives Problem Set #2

Differentiate each function with respect to x .

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

2) $f(x) = \frac{1}{4x^5 - 4}$

3) $f(x) = \frac{1}{3x^5 + 3}$

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

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

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

$$7) f(x) = \frac{2x^4 + 5x^2}{3x^5 + 2}$$

$$8) f(x) = \frac{2x^5 - x^4 + 4x^2}{5x^4 + 2}$$

$$9) f(x) = \frac{2x^5 - 2x^4 - 3x^2}{3x^5 + 2}$$

$$10) f(x) = \frac{4x^5 + 3x^4 + x^3}{5x^2 + 4}$$