

Name: _____

Directions: Find the derivative of each of the following functions.

1. $f(x) = 4x^6 + \pi^2 + 1$

2. $f(x) = 3\sqrt[5]{x^3}$

3. $f(x) = \frac{2}{x} + \frac{1}{2}$

4. $f(x) = \frac{1}{\sqrt{x}}$

Name: _____

Directions: Find the derivative of each of the following functions.

1. $f(x) = 2x^7 + x - 4$

2. $f(x) = 5\sqrt[4]{x^3}$

3. $f(x) = \frac{2}{x^2} + \frac{x^2}{2}$

4. $f(x) = \frac{1}{\sqrt[3]{x}}$

Name: _____

Directions: Find the derivative of each of the following functions.

1. $f(x) = 6x^2 - 3x + 1$

2. $f(x) = 9\sqrt[5]{x^4}$

3. $f(x) = \frac{5}{2x^2} + \frac{x^6}{3}$

4. $f(x) = \frac{1}{\sqrt[4]{x}}$

Name: _____

Directions: Find the derivative of each of the following functions.

1. $f(x) = 2x^7 - x + 2$

2. $f(x) = 3\sqrt{x^7}$

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

4. $f(x) = \frac{1}{\sqrt[5]{x}}$