Name: _____

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

1. $f(x) = x^8 - x + 3$

2. $f(x) = \dfrac{5}{x} + x^5$

3. $f(x) = \dfrac{1}{\sqrt{x}}$

4. $f(x) = \sqrt{7x}$

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

1. $f(x) = x^{-8} + x - 4$

2. $f(x) = \dfrac{1}{x^5} + x^5$

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

4. $f(x) = (7x)^2$

Name: _____

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

1. $f(x) = x^4 - 11x + 3$

2. $f(x) = \dfrac{5}{x^5} + \sqrt{x}$

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

4. $f(x) = \sqrt[3]{8x}$

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

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

2. $f(x) = \dfrac{1}{5x} + x^5$

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

4. $f(x) = \sqrt{4x} + \sqrt{2}$