Name: _____

For each function given below, find its derivative (using basic derivative rules).

1. $f(x) = x^4 + 10x^3 + 5$

2. $f(x) = 3\sin(x) - \cos(x)$

3. $f(x) = e^x + 5^x - e^5$

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

Name: _____

For each function given below, find its derivative (using basic derivative rules).

1. $f(x) = 3x^7 + 3 \cdot 7^x + 7^3$

2. $f(x) = 4\cos(x) - e^x$

3. $f(x) = \sin(x) + \frac{4}{x}$

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

Name: _____

For each function given below, find its derivative (using basic derivative rules).

1. $f(x) = \cos(x) - 2\sin(x)$

2. $f(x) = 3^x + e^x + \ln(7)$

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

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

Name: _____

For each function given below, find its derivative (using basic derivative rules).

1. $f(x) = 17x + 8$

2. $f(x) = x^{17} + 17^x + 17^\pi$

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

4. $f(x) = 3\cos(x) - 2\sin(x)$