

Post Video Questions

SAGE

```

1 nameCheck = function(a,b) {
2     return a.toLowerCase() != b.toLowerCase();
3 };
4
5 isDerivative = function(a,b) {
6     return a.equals( b.derivative('x') );
7 };
8

```

Please answer each of these questions to the best of your ability. You are welcome to re-watch parts of any of the videos to help you.

For each of the following functions, find the derivative function. To enter the number π , type “pi.”

Problem 1 $f(x) = -2x^{-3} + 7$, $f'(x) =$

Problem 2 $f(x) = -13x^\pi + 2 + \sqrt[4]{x^3}$, $f'(x) =$

Problem 3 $f(x) = 2^x$, $f'(x) =$

Problem 4 $f(x) = \log_e(x)$, $f'(x) =$

Problem 5 $f(x) = \log_{10}(x)$, $f'(x) =$

Problem 6 $f(x) = e^{2\ln(x)}$, $f'(x) =$

Learning outcomes:
Author(s):