

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 video to help you.

Problem 1 $f(x) = 4e^{3x}$, $f'(x) =$

Problem 2 $f(x) = \sin(x^2)$, $f'(x) =$

Problem 3 $f(x) = \sqrt{5 + x^7}$, $f'(x) =$

Learning outcomes:
Author(s):