

# Video Set Introduction

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SAGE

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1  nameCheck = function(a,b) {
2      return a.toLowerCase() != b.toLowerCase();
3  };

```

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In the box below, please enter your name without spaces. After you have typed it, press enter or click the question mark to submit your name.

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Before watching the video, think about and answer these questions to the best of your ability. Your answer will always be recorded as correct, regardless of your answer choice.

For each of the following functions, compute its derivative.

**Problem 1**  $f(x) = e^{2x}$ ,  $f'(x) =$

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**Problem 2**  $f(x) = \cos(\pi - x)$ ,  $f'(x) =$

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

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Learning outcomes:  
Author(s):