

## *Speed Quiz Competition*

### RULES

- Compute the derivative of each function shown. You don't need to simplify.
- Select how many points (1, 2, or 3) you are wagering on each question.

Incorrect answers count as negative points!

1.  $f(x) = x^6$

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

3.  $f(x) = e^x$

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

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

6.  $f(x) = 6^{x^2+1}$

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



8.  $f(x) = \frac{x^2}{\sqrt{x}}$

9.  $f(x) = \frac{1}{x}$

10.  $f(x) = \frac{1}{x^2 + x}$

11.  $f(x) = \ln(x^2 + 2)$

12.  $f(x) = \log_6(x^2 + 2)$