

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

2. $f(x) = \sin \sqrt{x}$

3. $f(x) = \sqrt{\sin x}$

4. $f(x) = \tan(x^3)$

5. $f(x) = \tan^{-1}(x^3)$

6. $f(x) = \ln(\sec x)$

7. $f(x) = \sec(\ln x)$

8. $f(x) = \tan x \cos x$

9. $f(x) = \frac{e^x}{\cos x}$

10. $f(x) = e^{\cos x}$

11. $f(x) = \frac{5x^3 - 4x^7}{x^2}$

12. $f(x) = \sec \sqrt{\ln x}$