

CAL 12 Derivatives With Exponentials and Logs

Find $f'(x)$ for each of the following. Use all your rules.

1. $f(x) = \sin(e^{x^2+3x})$

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

3. $f(x) = 7e^{\cos x}$

4. $f(x) = 4^{x^3+4}$

5. $f(x) = \frac{\sin x}{7^{2x}}$

6. $f(x) = 9^{x^2} \sin 3x$

7. $f(x) = e^{\sin e^x}$

8. $f(x) = (e^x + 4)^7$

9. $f(x) = 7^{5x} + \sin 7^x$

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