Calculus Review

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Compute the derivative of each function below.

1. $f(x) = 6x$

2. $f(x) = 3x^2$

3. $f(x) = 3x^2 + 7$

4. $f(x) = 3x^2 + \pi$

5. $f(x) = 3x^2 + c$, where c is a constant

6. $g(x) = \ln(x)$

7. $g(x) = \sin(x)$

8. $h(x) = e^x$

9. $h(x) = e^{2x}$

10. $h(x) = e^{f(x)}$, where $f(x)$ is some function

11. $f(x) = xy(x)$, where $y(x)$ is some function