

|                          |                            |                          |
|--------------------------|----------------------------|--------------------------|
| $f(x) = 3x^3$            | $f(x) = 5x + 6x^3$         | $f(x) = (5x^3 - 2x)(2x)$ |
| $f(x) = 18$              | $f(x) = 3^x$               | $f(x) = -\sin(x)$        |
| $f(x) = -3x^3$           | $f(x) = 5x^2 + 10x^3$      | $f(x) = 2\sqrt{x}$       |
| $f(x) = \cos(x)$         | $f(x) = \sin(x) \cdot e^x$ | $f(x) = 3x^{-2}$         |
| $f(x) = \frac{1}{x} + 5$ | $f(x) = \ln(x)$            | $f(x) = \frac{12}{5x}$   |

|                    |                             |                              |
|--------------------|-----------------------------|------------------------------|
| $f'(x) = 9x^2$     | $f'(x) = 5 + 18x^2$         | $f(x) = 120x^2 - 8$          |
| $f'(x) = 0$        | $f'(x) = 3^x$               | $f'(x) = -\cos(x)$           |
| $f'(x) = -9x^2$    | $f'(x) = 10x + 30x^2$       | $f'(x) = \frac{1}{\sqrt{x}}$ |
| $f'(x) = -\sin(x)$ | $f'(x) = e^x \cdot \cos(x)$ | $f'(x) = -\frac{6}{x^3}$     |
| $f'(x) = -x^{-2}$  | $f'(x) = x^{-1}$            | $f(x) = -\frac{12}{5x^2}$    |