

SOME DERIVATIVES:

$$f(x) = \sqrt{xe^x + x}$$

$$f(x) = \sin(x) + \cos(x/5) + \tan(\sqrt{x})$$

$$f(x) = \sin(x) \sin(x + \alpha)$$

$$f(x) = \frac{1 + \cos(2x)}{1 - \cos(2x)}$$

$$f(x) = \frac{x^8}{8(1 - x^2)^4}$$

$$f(x) = x^4(a - 2x^3)^2$$

$$f(x) = (a + x)\sqrt{a - x}$$

$$f(x) = \sqrt{(x + a)(x + b)(x + c)}$$

$$f(x) = 3 \sin(x) \cos^2(x) + \sin^2(x)$$

$$f(x) = \ln(\arcsin(x))$$

$$f(x) = \arcsin(\ln(x))$$

$$f(x) = \sqrt{e^{ax}}$$

$$f(x) = \ln(\ln(3 - 2x^2))$$

$$f(x) = \arctan \ln\left(\frac{1}{x}\right)$$

$$f(x) = \ln \frac{1 + \sqrt{\sin(x)}}{1 - \sqrt{\sin(x)}}$$

$$f(x) = (\sin(x))^x$$

$$f(x) = (x + 1)(x + 2)(x + 3)(x + 4)(x + 5)(x + 6)(x + 7)(x + 8)(x + 9)(x + 10)$$

$$f(x) = \frac{9}{5(x + 2)^5} - \frac{3}{(x + 2)^4} + \frac{5}{(x + 2)^3} + \frac{1}{3(x + 2)^2} - \frac{1}{x + 2}$$

$$f(x) = \ln \sqrt{\frac{x(x - 1)}{x - 2}}$$

$$f(x) = x^{x^x}$$