$f(x) = \frac{x^3}{2(x+1)^2}$

$f(x) = \frac{x}{\ln x}$

$f(x) = x^3 + 3x$

$f(x) = x + e^{-x}$

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

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

$f(x) = x^2 + 2|x|$

$f(x) = \operatorname{arctg} x$

$f(x) = \sqrt{6x - x^2}$

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

$f(x) = x + \sqrt[3]{x^5}$

$f(x) = 16x(x-1)^3$

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

$f(x) = x \ln x$

$f(x) = \ln(9 - x^2)$

$f(x) = \ln(x^2 - 16)$

$f(x) = -\ln(4 - x^2)$

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

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

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

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

$f(x) = e^{-x^2}$

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

$f(x) = \sqrt{1 - x^3}$

$f(x) = 1 - |x - 2|$

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

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

$f(x) = \frac{x}{x}$

$f(x) = x + \frac{4}{x}$

$f(x) = \frac{1}{x^2 + 3}$

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

$f(x) = x \cdot \sqrt{x+3}$

$f(x) = x e^{-\frac{x^2}{2}}$

$f(x) = x^2 e^{\frac{1}{x}}$

$f(x) = e^{\frac{1}{x}}$

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

$f(x) = \frac{\ln x}{x}$

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

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

$f(x) = \ln(x^2 - 1)$

$f(x) = \ln\left(\frac{1}{1 - x^2}\right)$

$f(x) = \ln\left(\frac{x+2}{x+1}\right)$

$f(x) = \ln\left(\frac{x+2}{2-x}\right)$

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