

**ADS - Cálculo**

**Regras de derivação – Atividade on-line 01**

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

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

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

4.  $f(x) = \left( \frac{2x^2-1}{1-x} \right)^6$

5.  $f(x) = \sqrt[3]{(x^2+1)^2}$

6.  $f(x) = 2^{3x^2+6x}$

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

8.  $f(x) = e^x(x^2-2x)^{10}$

9.  $f(x) = (5x-2)^6(3x-1)^3$

10.  $f(x) = (4x^4-x)^{20} \cos x$