

PF – CÁLCULO A UMA VARIÁVEL

1) Calcule o limite $\lim_{x \rightarrow 1} \frac{\sqrt[3]{x+7}-2}{\sqrt{x+8}-3}$

2) Calcule as derivadas

a) $f(x) = \sec\left(\frac{4x^2+2}{\ln x \cos x}\right)$

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

3) Calcule as integrais

a) $\int \frac{dx}{x(\ln x)^2}$

b) $\int \frac{1+x}{1+x^2} dx$