## Exerciri derivate

$$y = \frac{\ln (1 - n^{2})}{n} = n^{-1} \cdot \ln (1 - n^{2})$$

$$y' = \ln (1 - n^{2}) \cdot (-1n^{-2}) + (n^{-1}) \cdot D \left[ \ln (1 - n^{2}) \right] = \frac{\ln (1 - n^{2})}{n^{2}} + \frac{1}{n(1 - n^{2})} \cdot (-2n) = \frac{-(1 - n^{2}) \ln (1 - n^{2}) - 2n^{2}}{n^{2}(1 - n^{2})}$$

$$y' = \frac{N}{3n^{2} - 1} \cdot D \left\{ \frac{3n^{2} - 1}{n} \right\} = \frac{N}{3n^{2} - 1} \cdot \frac{D \left( 3n^{2} - 1 \right) \cdot n - D(n) \left( 3n^{2} - 1 \right)}{n^{2}}$$

$$= \frac{M}{3n^{2} - 1} \cdot \frac{6n^{2} - 3n^{2} + 1}{n^{2}} = \frac{3n^{2} + 1}{(3n^{2} - 1)n}$$

$$y = e^{m} + \ln m$$

$$y' = e^{m} + \ln m + \frac{1}{m} \cdot Dm = \frac{e^{m} \sqrt{n+1}}{\sqrt{n}} \cdot \frac{1}{2} n^{-\frac{1}{2}} = \frac{e^{m} \sqrt{n+1}}{2m}$$

$$\frac{ex}{y} = \frac{n \ln n}{\sqrt{n}} = \left[ \frac{1}{n \ln n} \right]$$

$$\frac{1}{n} + \frac{1}{2\sqrt{n}} \ln n = \frac{1}{\sqrt{n}} \left[ \frac{1}{n \ln n} \right] = \frac{\ln n + 1}{n}$$

$$\frac{ex}{y} = \sin^2 n - \tan (n^2 - 1)$$

$$y' = 2 seu n cos n - \frac{2n}{\cos^2(n^2-1)} = seu 2n - \frac{2n}{\cos^2(n^2-1)}$$

$$y = h sen^2 N$$

$$y' = \frac{1}{sen^2 n} \cdot 2 sen \cdot cos n = 2 cot n$$