$$y = (i\pi)^{2} \text{ om } x = 1$$

$$\ln |y| = \ln |(i\pi)^{2}| = x \ln |x|^{2} = \frac{x}{3} \ln |x| - \frac{x}{3} \ln |x|$$

$$y' = \frac{1}{3} \ln |x| + \frac{x}{3} \cdot \frac{1}{3} = \frac{1}{3} (\ln |x| + 1)$$

$$y' = \frac{1}{3} (\ln |x| + 1) \cdot (i\pi)^{2}$$

$$y = x^{2} \text{ om } x = 4$$

$$\ln |y| = \ln |x^{2}| = (i\pi |x|)$$

$$y' = \frac{1}{3} \cdot \ln |x| + \sqrt{2} \cdot \frac{1}{x} = \frac{1}{3} \left(\frac{\ln |x|}{2} + 1 \right)$$

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$$y' = \frac{1}{3} \cdot \ln |x| + \sqrt{2} \cdot \frac{1}{x} = \frac{1}{3} \cdot \ln |x|$$

$$y' = -\sin(x) \ln |x| + \cos(x) \cdot \frac{1}{x}$$

$$y' = (-\sin(x) \ln |x| + \cos(x)) \cdot \frac{1}{x}$$

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$$y = \log\left(\frac{1}{(1+x)}\right) = \log_{10}\left(\frac{(1+x)^{-1}}{x}\right) = \frac{1}{(1+x)^{-1}} = \frac{1}{(1+x)^{-1}}$$