

Test N°1: Introduction to the MATLAB environment



Excercise N°1

Using MATLAB and based on the first course, calculate the following operations:

$$a = \left(55 - \frac{109}{70} + 2,45^3 \right)^2$$

$$e = \frac{203 + \sqrt[3]{405}}{106 \times 0,7} + \log_{10} 589006$$

$$i = 5 \times \frac{3}{4} + \frac{9}{5}$$

$$b = 70 \times 3,1 + \frac{\sqrt{120}}{45} - 15^{\frac{5}{3}}$$

$$f = (360,1 - 2,25\pi) \left(e^{2,3+1,7} + \sqrt{120} \right)$$

$$j = 4^3 \left[\frac{3}{4} + \frac{9}{2 \times 3} \right]$$

$$c = \sqrt[3]{18 + \frac{80}{2,6}} + e^{3,5}$$

$$g = \frac{3,8^2}{2,75 - 41 \times 25} + \frac{5,2 + 1.8^5}{\sqrt{3,5}}$$

$$k = \frac{5}{3} e^{i\pi/4}$$

$$d = \left(\frac{1,8}{\sqrt{75}} + \frac{703}{3,1^3} \right)^{\frac{1}{4}} + 155 \times 9,41$$

$$h = \frac{2,1 \times 10^6 - 15,2 \times 10^5}{3\sqrt[3]{6 \times 10^{11}}}$$

$$l = \frac{\sin(0,2\pi)}{\cos(\pi/6)} + \tan 72^\circ$$

$$m = \left(\tan 64^\circ \cos 15^\circ \right) + \frac{\sin^2 37^\circ}{\cos^2 20^\circ}$$