



Exercise 1. Run MATLAB, find the command window and the blinking cursor. Find the answer to the following arithmetic problems:

- $1234 + 4321 = ?$
- $104 - 765 = ?$
- $47 * 33 = ?$
- $3^4 = ?$ (The operator for “power” is the circumflex \wedge , usually found by pressing  )
- How far is 19^2 from its approximation $20^2 - 2*20$? (Remember that $(a-b)^2 = a^2 - 2ab + b^2$?, thus the answer should be ± 1)
- Find an approximation to $1/73$
- Find an approximation to $\sqrt{31}$ (while you can of course use the fact that $\sqrt{x} = x^{0.5}$, you can also “look for” a dedicated function square root by learning how to use the **lookfor** command....)
- If you get 5% interest-rate (yearly) on a loan, compounded monthly, and you start with \$1000, how much money will you have after 20 years? (don't be confused by an answer of the form **2.7e3** which simply means 2.7×10^3)
- If two sides of a right triangle have lengths 31 and 45, what is the length of the hypotenuse?

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