

# Introduction to MATLAB

## – exercises

Markus Kuhn

Computer Science Tripos – Part II

**Exercise 1:** Find a *short* MATLAB expression to build the matrix

$$B = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 9 & 7 & 5 & 3 & 1 & -1 & -3 \\ 4 & 8 & 16 & 32 & 64 & 128 & 256 \end{pmatrix}$$

**Exercise 2:** Give a MATLAB expression that uses only a single matrix multiplication with  $B$  to obtain

- (a) the sum of columns 5 and 7 of  $B$
- (b) the last row of  $B$
- (c) a version of  $B$  with rows 2 and 3 swapped

**Exercise 3:** Give a MATLAB expression that multiplies two vectors to obtain

- (a) the matrix  $\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 1 & 2 & 3 & 4 & 5 \\ 1 & 2 & 3 & 4 & 5 \end{pmatrix}$
- (b) the matrix  $\begin{pmatrix} 0 & 0 & 0 \\ 1 & 1 & 1 \\ 2 & 2 & 2 \\ 3 & 3 & 3 \\ 4 & 4 & 4 \end{pmatrix}$

**Exercise 4:** Modify slide 30 to produce tones of falling frequency instead.

**Exercise 5:**

- (a) Write down the function  $g(t)$  that has the shape of a sine wave that increases linearly in frequency from 0 Hz at  $t = 0$  s to 5 Hz at  $t = 10$  s.
- (b) Plot the graph of this function using MATLAB's `plot` command.
- (c) Add to the same figure (this can be achieved using the `hold` command) in a different colour a graph of the same function sampled at 5 Hz, using the `stem` command.
- (d) [Extra credit] Plot the graph from (c) separately. Can you explain its symmetry? [*Hints*: sampling theorem, aliasing].

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web ans the mole concept in chemistry is a fundamental concept that allows us to connect the mass of a substance to the number of particles atoms molecules or ions it contains it is based on avogadro s number which states that one mole of any substance contains 6 022 x 10<sup>23</sup> particles 2