

I. Create MATLAB code to perform the following calculations. **PRINT your response.**

a) 5.6

b) $\sqrt{4 + 6^3}$

c) $9\frac{6}{12} + 7 \times 5^{3+2}$

IIa. Type in MS Equation Editor

$$t = \left(\frac{1}{1+px}\right)^k$$

PRINT your response.

$$t = \left(\frac{1}{1+px}\right)^k$$

b. Write the following in MATLAB

where $p = 7.1$, $x = 4.92$ and $k = -1.7$

III. Define the following (**WRITE your response**):

1. Order of Precedence

2. Command Window

3. Format long

4. Format short

5. Format bank

IV. Perform the following conversions:

a) $0.1\mu\text{F}$ to picofarads

b) 8400ps to microseconds

Multiplication Factors	SI Prefix	SI Symbol
$1\ 000\ 000\ 000\ 000\ 000\ 000 = 10^{18}$	exa	E
$1\ 000\ 000\ 000\ 000\ 000 = 10^{15}$	peta	P
$1\ 000\ 000\ 000\ 000 = 10^{12}$	tera	T
$1\ 000\ 000\ 000 = 10^9$	giga	G
$1\ 000\ 000 = 10^6$	mega	M
$1\ 000 = 10^3$	kilo	k
$0.001 = 10^{-3}$	milli	m
$0.000\ 001 = 10^{-6}$	micro	μ
$0.000\ 000\ 001 = 10^{-9}$	nano	n
$0.000\ 000\ 000\ 001 = 10^{-12}$	pico	p
$0.000\ 000\ 000\ 000\ 001 = 10^{-15}$	femto	f
$0.000\ 000\ 000\ 000\ 000\ 001 = 10^{-18}$	atto	a

TABLE 1.2