

## ASSIGNMENT 2 – EXTRA EXERCISES

### 201-943-DW (Applied Math)

8<sup>th</sup> Edition

p.29 #6 – 46 (EVEN numbers only)

p.32 #24 – 58 (EVEN numbers only)

p.34 #16 – 24 (EVEN numbers only) & 34, 36

9<sup>th</sup> Edition

p.29 #6 – 46 (EVEN numbers only)

p.32 #24 – 58 (EVEN numbers only)

p.35 #16 – 24 (EVEN numbers only) & 30, 34

These exercises accompany the exercises listed on the course website (and above):

### Exercise 1: SCIENTIFIC & ENGINEERING NOTATION

*Fill in the blanks:*

“Regular” Notation	Scientific Notation	Engineering Notation	Engineering with Metric Prefixes
	$1.23 \times 10^3$		
		$234.5 \times 10^{-3}$	
12500			
			65.7M
	$1.54 \times 10^{-8}$		
			125.1n
		$12.2 \times 10^9$	
	$5.78 \times 10^{11}$		
			35G
0.00045			
	$6.71 \times 10^{-7}$		

### Exercise 2: FRACTIONAL EXPONENTS

*Simplify the following expressions*

(a)  $16^{1/4}$

(b)  $25^{-1/2}$

(c)  $27^{1/3}$

(d)  $(-1)^{1/3}$

(e)  $(-125)^{-2/3}$

(f)  $16^{3/4}$

(g)  $2^{-3/4}$