

## I. Simplification Properties – summary, see p.71

$$b^m \times b^n = b^{m+n} \quad b^m \div b^n = b^{m-n} \quad (b^m)^n = b^{m \times n}$$

$$b^0 = 1 \quad (a \times b)^n = a^n \times b^n \quad (a \div b)^n = a^n \div b^n$$

$$b^{-n} = 1/b^n \quad (a \div b)^{-n} = (b \div a)^n$$

## II. Examples (pp.73-74): Exercises #2-124(even)

HW: Read section 1.6 (pp.64-72)

pp.73-74 / Exercises #5-129 (every other odd)

## I. Scientific Notation (p.77):

$$a \times 10^n$$

where  $1 \leq |a| < 10$  and  $n \in \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$

## II. Examples (p.82): Exercises #6,12

## III. Deciding the Exponent's ( $\pm$ ) Sign:

$n > 0 \Leftrightarrow$  relatively large #

$n < 0 \Leftrightarrow$  relatively small #

## IV. Examples (p.82): Exercises #18,26,32,40,52

HW: pp.82-83 / Exercises #3-51 (every other odd), 53,  
57-61 (odd), 67, 69