

## Chapter 1

### Introduction

Standard units of length, mass, time in the SI (international system):

mass    kilogram (kg)

length   meter (m)

time    second (s)

All other units are derived from these.

**TABLE 1.4**

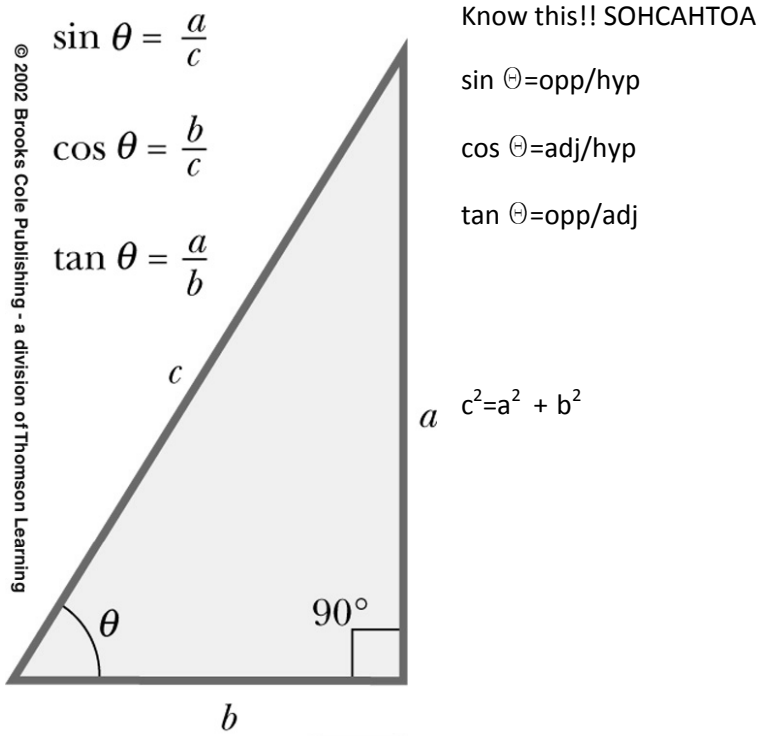
**Some Prefixes for Powers of 10 Used with “Metric” (SI and cgs) Units**

Power	Prefix	Abbreviation
$10^{-18}$	atto-	a
$10^{-15}$	femto-	f
$10^{-12}$	pico-	p
$10^{-9}$	nano-	n
$10^{-6}$	micro-	$\mu$
$10^{-3}$	milli-	m
$10^{-2}$	centi-	c
$10^{-1}$	deci-	d
$10^1$	deka-	da
$10^3$	kilo-	k
$10^6$	mega-	M
$10^9$	giga-	G
$10^{12}$	tera-	T
$10^{15}$	peta-	P
$10^{18}$	exa-	E

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Unit conversion-use the factor label method like you’ve been taught in class. Common conversion factors:

3.281 ft/m, 5280 ft/mi, 2.54 cm/in, 1.609 km/mi



Problem solving strategy (process)

