Algebra 2 w/ Trigonometry

Unit 1 (part 2): Equations and Inequalities

Book sections covered here:

Chapter 2: Sections 2-1 through 2-7. NOT including sections 2-8 and 2-9.

Equations – Solving (cont.)

Term(s)	Words of wisdom	comments
Zero products	a * b = 0 iff $a = 0$ or $b = 0$	
Formula		Solving in terms of other symbols.

Inequalities – Solving

Term(s)	Words of wisdom	comments
Inequalities	<;≤;>;≥	
Graph on the number line		
Multiplication property of		
inequality.		
Multiplying by:		
Positive number		
Negative number		
Zero		

Compound Inequalities – Solving

Term(s)	Words of wisdom	comments
Conjunction, AND		
(intersection)		
Disjunction, OR		
(union)		

Absolute Value

Term(s)	Words of wisdom	comments
Distance from 0 on a number		
line		
Properties:		
a*b = a * b		
$\left \frac{a}{b}\right = \frac{ a }{ b }$		
$ a^n = a^n$ in SOME cases.		
E.g.: If n is even integer		
B:		
Distance between two numbers		
Humbers		

Absolute Value – Equations and Inequalities

Term(s)	Words of wisdom	comments
$ x = 5 \implies x = 5 \text{ or } x = -5$		
$ x < 5 \implies -5 < x \text{ and } x < 5$		
$ x > 5 \implies x < -5 \text{ or } x > 5$		