Date: _____

Name: _____ Notes Algebra Section 2.3 Pages 80-84

Goal: "Subtract positive and negative numbers"

Subtraction:

When subtracting with negative numbers add the opposite. (boop boop/leave change opposite)

Examples:

-9 - 5 =	-6 - (-4) =	-4 - (-9) =	2 - (-7) =	
-9 + (-5) = -14	-6 + 4 = -2	-4 + 9 = 5	2 + 7 = 9	
Try These:				
-6 - 3 =	-9 - (-2) =	12 - (-4) = 12 + 4 = 16	-3 - (-4) =	
-6 + (-3) = -9	-9 + 2 = -7		-3 + 4 = 1	
-14 - 18 =	-20 - (-24) = -20 + 24 = 4	15 - (-19) =	23 - (-18) =	
-14 + (-18) = -32		15 + 19 = 34	23 + 18 = 41	
-24 - (-34) = -24 + 34 = 10	274 - (-452) = 274 + 452 = 726	-345 - (-342) = -345 + 342 = -3	-254 - 120 = -254 + (-120) = -374	
Evaluate when $x = -5$ and $y = 6$				
a) $x - y$	b) $y - x$	c) $y - x - 6$	d) $x - y + 3$	
-5 - 6	6 - (-5)	6 - (-5) - 6	-5 - 6 + 3	
-5 + (-6) = -11	6 + 5 = 11	6 + 5 + (-6) = 5	-5 + (-6) + 3 = -8	
a) $(r - A) + v$	f) $r + (v - 7)$	(y - y)	h) $11 + r + v$	

e) $(x - 4) + y$	f) $x + (y - 7)$	g) $3(y - x)$	h) 11 + x + y
(-5-4)+6	-5 + (6 - 7)	3(6-(-5))	11 + (-5) + 6
(-5 + (-4)) + 6	-5 + (6 + (-7))	3(6+5)	12
-3	-6	33	

Word Problems:

Ex: One of the most extreme temperature changes in United States History occurred in Fairfield, Montana on December 24, 1924. At noon, the temperature was $63^{\circ}F$. By midnight, the temperature fell to $-21^{\circ}F$. What was the change in temperature? $84^{\circ}F$



