Name:_____   Date:_____

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/same change change)

Ex: $-12 - 19 = -12 + (-19)$ =-31

Ex: $5 - (-9) = 5 + 9$= 14

<u>Try These:</u>

Ex: –12 – 19= -31   **Ex:** 18 – (–7)= 25   **Ex:** 11.7 – (–5)=16.7

Ex: $\frac{1}{3} - \frac{1}{2} = -\frac{1}{6}$ **Ex:** $-9 - (-12)$= 3

Evaluate when $x = -2$, and $y = 7.2$ (when inputting a value put it in parentheses)

  1) $y - x = 7.2 - (-2) = 9.2$ 2) $x - y = (-2) - 7.2 = -9.2$

Evaluate when $x = -3$, and $y = 5.2$

Ex: $x - y + 8 = (-3) - 5.2 + 8 = -0.2$ **Ex:** $y - (x - 2) = 5.2 - [(-3) - 2] = 10.2$

Ex: $(y - 4) - x = (5.2 - 4) - (-3) = 4.2$

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°F. By midnight, the temperature fell to –21°F. What was the change in temperature? 84°F