

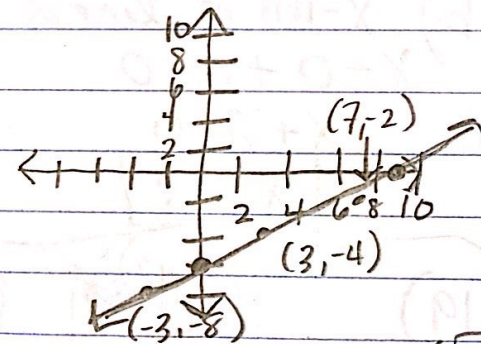
HW #4, 5 (HL) #4, 6 (SL)

4.) $2x - 3y = 18$

a.) $2x = 18 \Rightarrow x = 9$

$-3y = 18 \Rightarrow y = -6$

d.)



b.) i. $(3, -4) \Rightarrow 2(3) - 3(-4) = 18 \Rightarrow 6 + 12 = 18 \Rightarrow 18 = 18 \checkmark$ Yes

ii. $(7, -2) \Rightarrow 2(7) - 3(-2) = 18 \Rightarrow 14 + 6 = 18 \Rightarrow 20 \neq 18$ No

c.) $(-3, c) \Rightarrow 2(-3) - 3c = 18$

$-6 - 3c = 18 \Rightarrow c = -8$

$+6 \quad +6$

$-3c = 24$

5.) nigiri - x \neq sashimi - y .

a.) the cost of nigiri for x servings is $4.50x$
the cost of sashimi for y serving is $9y$
the total cost is the sum $\therefore 4.5x + 9y = 45$

b.) $4.5(4) + 9y = 45$ 3 servings
 $18 + 9y = 45$
 $-18 \quad -18$
 $9y = 27$
 $\therefore y = 3$

c.) $4.5x + 9(1) = 45$ 8 servings
 $4.5x + 9 = 45$
 $-9 \quad -9$
 $4.5x = 36$
 $4.5 \quad 4.5$
 $\therefore x = 8$

