Algebra 5-3/5-6 Solving Equations and Inequalities

Warm-up

Dani has \$100 and saves \$10 per week. Eric has \$70 and saves \$15 per week. Fill in the table to the right and answer the following questions.

1. Who has more money after 3 weeks?



2. Wh has more money after 2 months (assume 4 weeks in a month)?



3. When will they have the same amount of money?



Weeks	Dani \$	Eric \$
0	IDD	70
1	110	95
2	120	100
3	130	115
4	140	130
5	150	145
6	160	160
7	סלן	175
8	180	190
9	190	205

Algebra 5-3/5-6 Solving Equations & Inequalities

1.
$$6-9k=5x-1$$
 $6-9k\ge 5x-1$
 $6-9k\ge 6x-1$
 $6-9k$

$$3.-|x| = 10 + 4x$$

$$-|x| + |x|$$

$$0 = |0| + 5 \times$$

$$-|0| - |0|$$

$$-|0| = 5 \times$$

$$5$$

$$-2 = x$$

$$-(-z) = |0| + 4(-z)$$

$$2 = |0| - 8$$

$$2 = |0| - 8$$

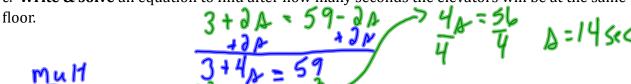
$$2 = |0| - 8$$

$$|0| = |0|$$

- 7. In a tall office building, elevator A leaves the third floor and ascends at a speed of 2 floors per second. Elevator B leaves the 59th floor at exactly the same moment and descends at a speed of 2 floors per second.
 - a. Write an expression that represents the location of elevator A.

b. Write an expression that represents the location of elevator B.

c. Write & solve an equation to find after how many seconds the elevators will be at the same



8. Three times a number is less than the sum of two times a number and five. Find the number.

X= the #

Assignment: 5-3 #'s 1, 2, 6-12 Even, 16-22 Even 5-6 #'s 4-15