Additional Practice Word Problems (Introduction, Graphing Functions)

See ANSWERS below on PAGE 2

Use the information given below to create a table, equation, and graph for the function.

1) Michael weighs 345 pounds and loses 8 pounds a week.

2) Andrea lives in Monroe, where the population is currently 2,000. If the population has annual growth rate of about 5%, what equation models the population?

3) Serena's hair is 14 inches long. It grows half an inch each month.

4) A car depreciates at a rate of 7% per year. If the value of the car in 2009 was \$15,400, what equation models the value of the car?

Answers:

1) y = -8x + 345

# of weeks	weight
0	345
1	337
2	329
3	321
4	313



2) y=2000(1.05)x

year	population
0	2000
1	2100
2	2205
3	2315.3
4	2431



3) y=1/2x+14

# of months	length of hair
0	14
1	14.5
2	15
3	15.5
4	16



hav = 14in (y-int) growths 1/2 in / month slope= 12 y= mx+b y= 12x+14

4) y=15400(0.93)x between 9 to 10 years or 9.55 years



