NOTES SECTION 2.4 – WRITING EQUATIONS OF LINES – DAY 2

REMEMBER

EXAMPLE 1

In 1984, Americans purchased an average of _____ meals per person at restaurants. By 1996, this

number was _____.

a) Write a linear model for the number of meals purchased per person annually.	b) Use the model to predict the number of meals that will be purchased per person in 2008.

EXAMPLE 2

In 1991, there were _____ million cats as pets in the US. By 1998, this number was _____ million.

a) Write a linear model for the number of cats as pets.	b) Use the model to predict the number of cats in 2010.

DIRECT VARIATION

EXAMPLE 3

The variables x and y vary directly, and _____ when _____.

a) Write an equation relating x and y.	b) Graph the equation relating x and y.	c) Find y when _____.

EXAMPLE 4

Tell whether the data show direct variation. If so, write an equation relating x and y.

a)

b)