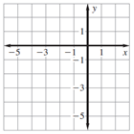
5.7 Notes

"Predict with Linear Models"

Ex. # 1 – Make a scatter plot of the data.
Find the equation of the best fitting line.
Approximate the value of y for x = -2.

x	−5	−3	−1	1	2
y	1	0	−2	−2	−3



Ex. # 2 – Find the zero of the function.

a) $f(x) = \frac{1}{8}x + 2$ b) $f(x) = -20 + 7.5x$

Ex. # 3 – Word Problem Practice

FARMING The table shows the living space recommended for pigs of certain weights.

Weight (pounds)	40	60	80	100	120	150	230
Area (square feet)	2.5	3	3.5	4	5	6	8

a. Make a scatter plot of the data.
b. Write an equation that models the recommended living space (in square feet) as a function of a pig's weight (in pounds).

c. About how much living space is recommended for a pig weighing 250 pounds?