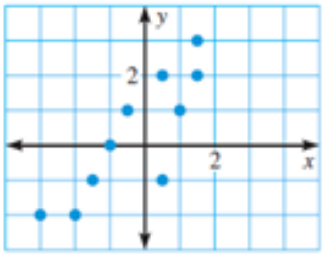
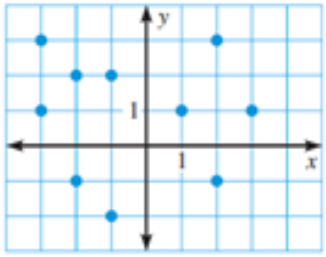
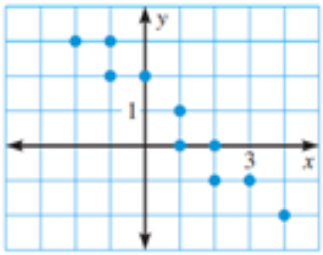
5.6 Notes

"Fit a Line to Data"

Ex. #1 → Tell whether *x* and *y* show a *positive correlation*, a *negative correlation* or *relatively no correlation*.

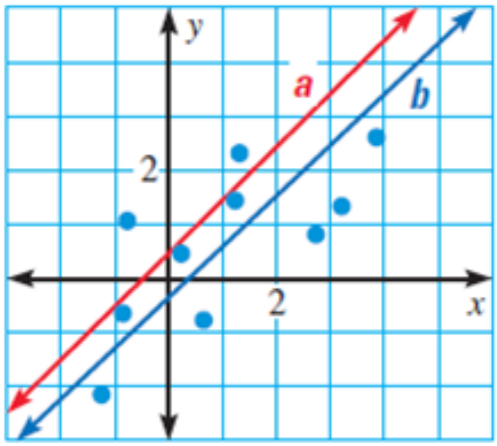






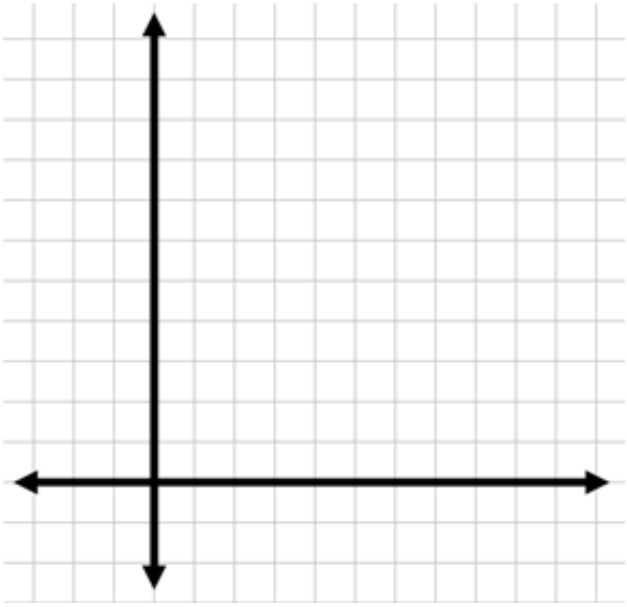
Ex. #2 → "Line of Best Fit"

Which line shown is a better line of best fit for the scatter plot? Why?



Ex. #3 → Make a scatter plot of the data. Describe the correlation of the data. If possible, draw a line of best fit and write an equation for the line.

x	10	12	15	20	30	45	60
y	−2	4	9	16	32	55	87



Ex. #4 → Word Problem Practice

Grapefruit The table shows the price (in dollars) for one pound of grapefruit for the years 1997 through 2002.

Years since 1997	0	1	2	3	4	5
Price (dollars)	0.53	0.55	0.58	0.58	0.60	0.62

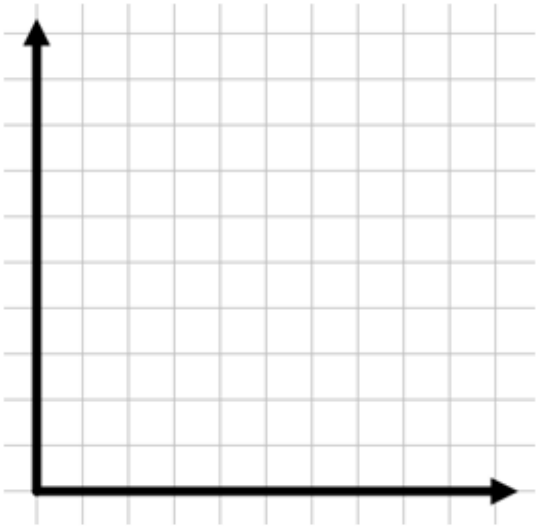
a. Make a scatter plot of the data where x represents the years since 1997 and y represents the price (in dollars).

b. Draw a line of fit for the data.

c. Write an equation for the line.

d. Would it be reasonable to assume that the price of a pound of grapefruit cost $0.63 in 2005?

Years since 1997	0	1	2	3	4	5
Price (dollars)	0.53	0.55	0.58	0.58	0.60	0.62



Homework

5.6 "B" Worksheet ALL