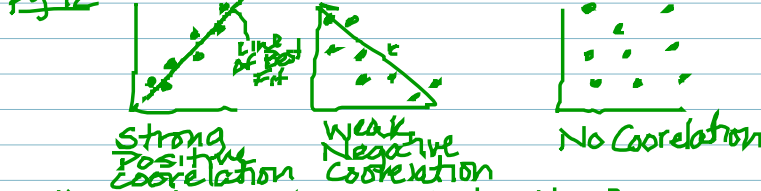
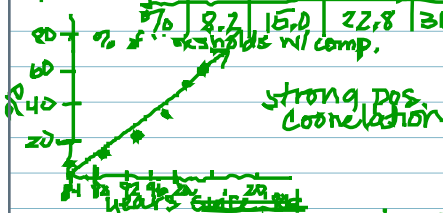


Unit: 2.5 Scatter Plots & Lines of Best Fit



Ex # 1.

Year	1984	1989	1993	1997	2001	2003
% of households w/ comp.	8.2	15.0	22.8	36.2	56.3	61.8



$$y = mx + b$$

$$(-003, 61.8) (1989, 16)$$

$$\frac{16 - 61.8}{1989 - 2003} = \frac{-45.8}{-14} = 3.27$$

$$y = 3.27x + b$$

Pg 95 m

v	200	500	1000	2000	2500
e	22	20	13	7	6

$$16 = 3.27(5) + b$$

$$16 = 16.35 + b$$

$$-0.35 = b$$

(1) 2nd num 4: clear enter $y = 3.27x - .35$

(2) Stat: edit enter (List pt)

(3) 2nd stat plot enter

(4) y = (clear all equation)

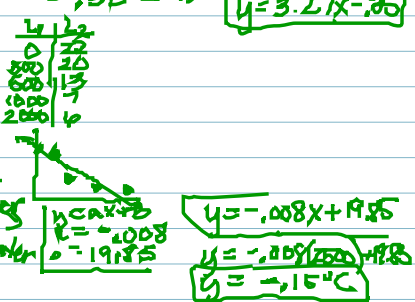
(5) Graph zoom 9 or zoom to

(6) Stat → Calc 4: LinReg enter

(7) v = Vars 5: statistics → EQ enter

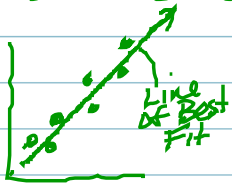
(8) Graph Zoom 9

(9) 2nd Tblset, 2nd Table

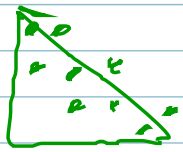


Unit 2.5 Scatter Plots & Lines of Best Fit

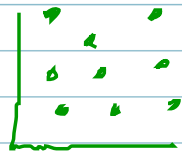
Pg 92



Strong Positive Correlation



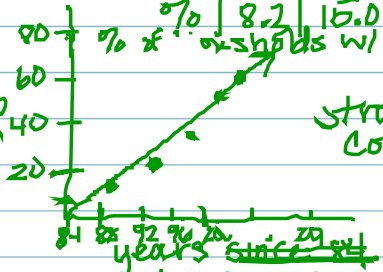
Weak Negative Correlation



No Correlation

Ex #1.

Year	1984	1989	1993	1997	2001	2003
% of households w/ comp.	8.2	15.0	22.8	36.0	56.3	61.8



Strong pos. Correlation

$$y = mx + b$$

$$(2003, 61.8) (1989, 16)$$

$$\frac{16 - 61.8}{1989 - 2003} = \frac{-45.8}{-14} = \underline{3.27}$$

$$y = 3.27x + b$$

Pg 95 m

v	200	500	1000	2000	2500
w	22	20	13	7	6

$$16 = 3.27(5) + b$$

$$16 = 16.35 + b$$

$$-16.35 = -16.35$$

$$-35 = b \quad \boxed{y = 3.27x - 35}$$

- 1) 2nd mem 4: clear enter
- 2) Sta- edit enter (List pt)
- 3) 2nd stat plot enter
- 4) y = (clear all equations)
- 5) Graph zoom 9 or mark zoom 6
- 6) Stat → Calc 4: Lin Reg enter
- 7) v = Vars 5: statistics → Eq enter
- 8) Graph Zoom 9
- 9) 2nd Tblset, 2nd Table

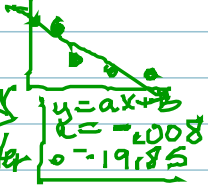
on type

X List: L1

Y List: L2

mark zoom 6

L1	L2
0	22
300	20
600	13
1000	7
2000	6



$$y = -0.008x + 19.85$$

$$y = -0.008(2500) + 19.85$$

$$\boxed{y = -15^{\circ}\text{C}}$$