$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
12 nd (Mon.)       29       77       -0.4       2       0.2       4.0       -0.8         23 rd (Tues.)       28       62       -1.4       -13       2.0       169.0       19.2         24 lh (Wed.)       34       43       4.6       18       21.2       324.0       82.8         25 lh (Thurs.)       31       84       1.6       9       2.6       81.0       14.4         26 lh (Fri.d)       26       59       -4.4       -16       19.4       256.0       70.4         Sum       147       376       0       0       46.4       8.34.0       185.0         Average       29.4       75       1       5xx       5yy       5xy
23 rd (Tues.) 28 62 -1.4 -13 2.0 169.0 19.2 24 th (Wed.) 34 a3 4.6 18 21.2 324.0 82.8 25 th (Thurs.) 31 94 1.6 9 2.6 81.0 14.4 26 th (Fri.d 26 59 -4.4 -16 19.4 256.0 70.4  Sum 147 375 0 0 45.4 8 34.0 195.0  Average 29.4 75  \$\frac{1}{X}\$ \$\frac{1}{Y}\$ \$\
23 rd (Tues.) 28 62 -1.4 -13 2.0 169.0 19.2 24 th (Wed.) 34 a3 4.6 18 21.2 324.0 82.8 25 th (Thurs.) 31 94 1.6 9 2.6 81.0 14.4 26 th (Fri.d 26 59 -4.4 -16 19.4 256.0 70.4  Sum 147 375 0 0 45.4 8 34.0 195.0  Average 29.4 75  \$\frac{1}{X}\$ \$\frac{1}{Y}\$ \$\
24 th (Wed.) 34 43 4.6 18 21.2 324.0 82.8  25 th (Thurs.) 31 94 1.6 9 2.6 81.0 14.4  26 th (Fri.d 25 59 -4.4 -16 19.4 256.0 70.4  Sum 147 375 0 0 45.4 834.0 195.0  Average 29.4 75  \$\frac{1}{x}\$  \$\frac{1}{y}\$  \$\fra
25th (Thurs) 31 94 1.6 9 2.6 81.0 14.4 26th (Fri.d 25 59 -4.4 -16 19.4 256.0 70.4  Sum 147 375 0 0 45.4 834.0 195.0  Average 29.4 75  \$\frac{1}{X}\$ \$\frac{1}{Y}\$ \$1
26 th (Fri.d 25 59 -4.4 -16 19.4 256.0 70.4 Sum 147 375 0 0 45.4 834.0 195.0 Average 29.4 75 \$\frac{1}{X}\$ \$\frac{1}{Y}\$ \$
Sum  147  375  0  0  45.4  834.0  185.0  Average  29.4  \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Average $\frac{29.4}{x}$ $\frac{1}{y}$ $\frac{1}{y}$ $\frac{1}{y}$ $\frac{1}{5}xx$ $\frac{1}{5}xy$
$\frac{1}{X}$ $\frac{1}{Y}$ $\frac{1}$
$\frac{1}{X}$ $\frac{1}{Y}$ $\frac{1}$
Steo 9
Steo 9
Actual iced Predicted
High temp iced tea period to the second tea
on c tea orders order Squared residuals
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
22 nd (Mon.) 29 77 ax 29+b 77 (ax 29+b) [77 (ax 29+b)]2
23 rd (Tues.) 28 62 $a \times 28 + b$ 62- $(a \times 28 + b)$ [62- $(a \times 28 + b)$ ] <sup>2</sup>
24 th (Wed.) 34 a3 ax 3a t b a3 (ax 3a t b) [93 (ax 3a t b) 72
25th (Thurs) 31 84 $a \times 31 + b$ 84- $(a \times 31 + b)$ [84- $(a \times 31 + b)$ ] <sup>2</sup>
26 th Cfri.d 26 59 $a \times 25 + b$ $59 - (a \times 25 + b)$ $[59 - (a \times 25 + b)]^2$

375-(147a+ 5b)

75- (29.4at b)

Se = [77-(ax29+b)]2...+ [59-(ax25+b)]2

= \( \bar{y} - (\bar{x}a+b)

Step 3

Sum

Average

 $\frac{dy}{dx} = n(ax+b)^{n-1}xa$ 

147

29.4

375

Diff a

dse = 2 [77-(294+b)] x (-29) +...+ 2 [59-(254+b)] x (-25) =0 (1)

147a+ 5b

294a+ b

= xatb

dse = 2 [77-699+6)] x (-1) +...+ 2 [59-(260+6)] x (-1) =0 2

$$a = \frac{5xy}{5 \times x} = \frac{1850}{45.4} = 4.1$$

$$b = \sqrt{-x}a = 75 - 29.4 \times 4.1 = -45.54$$