01.
$$Ex_{i} = 311.6$$
 $Ex_{i}^{2} = 8139.26$
 $Ex_{i} = 297.2$ $Ex_{i}y_{i} = 7687.6$
 $y_{i} = 297.2$ $Ex_{i}y_{i} = 7687.6$
 $y_{i} = 297.2$ $Ex_{i}y_{i} = 7687.6$
 $y_{i} = 297.2$ $Ex_{i}y_{i} = 7287.6$
 $y_{i} = 297.2$ $ex_{i}y_{i} = 12 \times 7687.6 - 297.2 \times 311.6$
 $y_{i} = 27.5 + 1 \times 2.5 \times 2.$
 $y_{i} = 42.582$
 $y_{i} = 42.582$
 $y_{i} = 42.582$
 $y_{i} = 42.582$
 $y_{i} = 25.77 - 42.582$
 $y_{i} = 25.77 - 42.582$
 $y_{i} = 25.6861$
 $y_{i} = 25.77 - 42.582$
 $y_{i} = 26861$
 $y_{i} = 26861$
 $y_{i} = 26861$
 $y_{i} = 26861$
 $y_{i} = 2847 - 2847 + 2847$

 $S = \frac{SSE}{N-2} = \frac{Sy_2 - b_1 Sxy}{N-2} = \frac{47.1467 - (-.6861)(-29.5313)}{10}$

(P402)

$$= b_0 \pm t_{42} \le \sqrt{\frac{2 \times 10^{-10}}{10 \times 10^{-10}}}$$

$$= 42.5818 \pm 3.169 \times 1.64 \sqrt{\frac{8134.26}{12 \times 43.0467}}$$

$$= 42.5818 \pm 20.6237$$

03.
$$b_1 \pm t_{\alpha/2} \int_{5nn}^{5} (P403)$$
 $= -0.6861 \pm 3.169 \times 1.640 / \sqrt{43.0467}$
 $\Rightarrow \sqrt{-1.438} < \beta_1 < 0.106$

03. Oscillations

(B1 L d L)

```
DE
                                  £74 = 930 , n=12, x=77.5
                                     Ey; = 56.69 (n = 12, y = 77.5 4.724167
                                      Exi2 = 73764, Eyi= 270.9251, Exy; = 72075
                                      Ex47: = 4412.22
                                     S_{XX} = \xi_{X_1}^2 - \frac{(\xi_{X_1})^2}{N} = \frac{73764 - \frac{930^2}{11}}{11} = 1689
                                    b_{1} = \frac{12 - 168}{12 - 168} = \frac{12 - 168}{12 - 3.112092}
b_{1} = \frac{12 - 168}{12 - 3.112092} = 0.0407016
                                     bo = £7; - 6,50 = y - 6,50 = 4.729167-040716*77.5
                                                                                                                                                                             21.5686767
                                        Y= . 64 070/6x+ 1. 568677 3
                                        SST = E(7; - Y) = 3.112092 Syy = 3.112092
                                      SSE = E(Y; -3) = 549 = 3.112092
                                                                      = Syy - 6, Sxy = 3.112092 . 0407016 × 72075
                                                                           = Syy - 5, - Sxx = 3.112092 - (004070) × 1689
                                                                                                                                       = 0.314005
                                      R=1- SSE = 1- 31405 = 0.899084
                >=1.5687 + 0.0407x
                                                                                                                                                                                                                                                Lata
                                                                                                                                                                                                                                              from 25
                     Testo Hook = 0
                                               H & B, 70
                                                 df=n-2=10, d/2=025, t.ors, 10=2-218, 5= 55E=
                                                tobs = 6,00 = (8404, Bio = hypothesized value of B, =0)
                                    = 0.0407/(.1772/11689) = 0.0407/.004312 = 9.44 Am.
              Additional Note:
                                                                                                                                                                                                                         tobs is in cont. Rejection region.
                       -\frac{2}{2} + \frac{1}{2} + \frac{1
                                                                                     ty=tcrit= 2.228
b1=0407
b1
                                                                                                                                                                                                                         Ho is rejected.
                                                               b,=B,=0
```