309 J = F, 30. T Ho: µ = 200 1. H1: 4 200 M (200 Tobs > 1.05,7 n = 8 $\bar{x} = \frac{1}{8} (210 + 198 + 195 + 202 + 197.4 + 196 + 199 + 195.5)$ of added hore and daller of 3 x = 199.1125 nongra lastino sul. $S = \frac{1}{8-1} \left((210 - 199.1125) + (198 - 199.1125) + (195 - 199.11$ + (202-199.1125) + (197.4-425) + (196-1921125) + (199-199.1125) + (195.5-199.1125) 4 71.6 C.16 = 24.386 PS.3 = X is = 9.94 5 - 10-1 (5.22-5.24) 4 (6.31-5.24) 4 (6.22 5.20) 4 $T_{olos} = \frac{x - \mu}{5/n}$ $\frac{139.1125 - 200}{4.96/8}$ = (-..508)

03)00

So, null accepted, Toby has not fallen in the control occepted, Toby has not fallen in the control occupien (-x, -1.895). So, we can't conclude that the mean booking strongth of the fiber is less than the tenget.

$$\bar{X} = 5.24$$

$$n = 10$$

$$5^{V} = \frac{1}{10-1} \left\{ (5.28-5.24)^{V} + (5.31-5.24)^{V} + (5.22-5.24)^{V} + (5.29-5.24)^{V} + (5.27-5.24)^{V} + (5.29-5.24)^{V} + (5.29-$$

and about to more companies of $\frac{14}{5}$ of $\frac{14}$ of $\frac{14}{5}$ of $\frac{14}{5}$ of $\frac{14}{5}$ of $\frac{14}{5}$ of

9X.16 9X.00164

Xobs = .09225

181 = 14 = 181

For (\alpha = .10)

X.90,9 = 4.168 13 = -90

 χ^{ν}_{obs} (3) + 1,2(1-11) = 92

So, null prejected the new method be adopted

82,69

11. I brown of temple buts

$$H_1$$
: $\mu_1 > \mu_2$

 H_1 ; $\mu_1 > \mu_2$ $\mu_2 \rightarrow mean$ of make buts

$$n = 12$$

$$m = 10$$

S. = 180

$$G_1 = 92$$
 (o1. = A) grob Ω

$$S_2 = 86$$

$$Sp = \frac{(n-1)5.7 + (m-1).5.2}{n+m-2}$$

 $=\frac{11\times 92+9\times 86}{12+6-2}$

= 7983.4

$$= \frac{180 - 136}{89.35\sqrt{\frac{1}{12} + \frac{1}{10}}}$$

$$T_{.05,20} = 1.725$$

Null accepted. Toke isn't tallen in the confideal region (1.725, x). Female bots between teadings is

91

more than that of male bots:

$$\frac{1}{10} \frac{1}{5} \frac{1}{100} \frac{1}{10$$

$$\bar{X} = 20$$
 $\sqrt{20} = 10$

.06,50 = 1.725

$$\hat{\beta} = \frac{\sum (n-\bar{n})(J-\bar{J})}{\sum (n-\bar{n})^{r}}$$

$$\Rightarrow 10 = \cancel{1} + .5 \times 20$$

$$\frac{\partial}{\partial x} = 0 + .5 \times \text{missing riveds}.$$

$$\frac{1.550}{(12-.5\times25)^{4}+(15-.5\times25)^{4}} + (11-.5\times25)^{4}$$

Ennow Vapiance =
$$\frac{SSR}{n-2} = \frac{1.5}{5-2}$$

$$= .5$$