MATH	458	7	F18
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HW3.

2-way Table.

Observed		A	B	C	D	THE
Офзели	a	30	20	15	7	7-2
	Ь	20	30	30	18	98
	Total	50	50	45	25	170

D Total Expected 21.18 21-18 19.06 10.59 72 28-82 28-82 25-94 14-41 98 50 45 170

df=(-1)(-1)

GOF Test: X= 10.098

p = 0.0178 < 0.05

> reject to, do not accept that variables are independent.

2 ANOVA #1, F= 0.0924

=> accept to, groups have the same mean

(3) ANOVA #2

F= \$22 2.99

> accept Ho, grages grades in section's have same mean.

> aught to, groups have some mean

## 3 ANOVA #5

$$\hat{C} = x_1 + x_2 - x_3 - x_4 = 0.025$$

$$\bar{X} = 4.02$$

$$n_3 = 12$$

ny = 11

$$df = h - k$$

= accept Ho, the two groups

have some means.

$$t_{Aj} = \frac{x_i - x_j}{s_{q} \sqrt{\frac{1}{m_i} + \frac{1}{n_j}}}$$

$$\overline{X}_1 = 331.33$$

$$\bar{x}_1 = 331.33$$
  $n_1 = 15$   $Sp = 43.06.$ 

$$\overline{X}_2 = 355.15$$
  $n_2 = 13$ 

$$x_3 = 370.07$$
  $n_3 = 14$ 

$$n_3 = 14$$

$$t_{12} = \frac{-23.82}{43.06 \sqrt{0.1436}} = -1.46$$

$$t_{1,3} = -\frac{38.74}{43.66/40.138} = -2.42$$

$$t_{2,3} = -\frac{14.92}{43.06\sqrt{0.148}} = 0.901$$

Sig. level 
$$\alpha = 0.05$$
, 3 pais

Sig. level 
$$x = 0.05$$
, 3 pais.  
 $\Rightarrow x' = \frac{0.05}{3} = 0.017$ ;  $df = N - k = 39$ .