Scm 651 2 Pan Chen	ndivided HWI		
1 on chevi	On-Campus	off-Campus	
Under class	80	20	100
upper class	60	90	150
Trad	(0	40	50
perted	150	150	300
	On-Compa	0/1	
Underclass	50	off campus	
MPPerclas	75	75 (0	
grod	25	75	O.
l	150	3	
$\frac{1}{2} = \frac{(50-80)^2}{\sqrt{100}} +$	$\frac{(20-50)^{2}}{50} + \frac{(60-75)}{75}$ $-3+2+9+9=20$	2 + (40-751 ² , (1)	0-25/2 542 15/2
- 18 +184	50 75	75 1	25 f 25
H= (3-U12-	- 1 1 1 1 1 1 - 51	of 24 = 60	,
	0-2		
$\chi^2 = 9.21$			
X27 Xoul, Rai			
the proportions	of underclaismen, ap	perclassmen and grade	note Students wh

live on-compus housing are NOT eggs

1

2.

Expected Freq.

Mule 3 4.8 9 6 7.2 Female 2 3.2 6 4 4.8

There are to cells in total, and the whole of them are less thron 5

So No, we can't use the current cross-tab for Chi-squox test Gotta wedity it.

Modified Observed Freq: Modified expected Freq Male 10 20 30 Male 16.8 13.2 Female (8 2 20 Female 11.2 8-8 28 22 50

I used Excel to calculate the pt value, which is 7.668×10-5 p-value & o.ul, Reject Ho, and there is relationship between good or and worthing pro toothall on TV.

Minute Maid: Y=(BotB2AB4+B6)X+6
Tree Fresh: Y=(BotB3)+(B4+B7)X+6
Florido Gold: Y=BotB4X+6

(b)(ii) B4+B6=B (b)(iii) B4+B6=B (b)(iii) B4+B6=B4=>B5=B6=0

4/a/-10! $B_1 - B_2$ $A_2 - 0$, k=2 m=4, h=65 h-h-1=60 $R_{fall}^2 = 0.5$, $R_{fall}^2 = 0.3$ $F=\frac{0.5-0.3}{1-0.5} \times \frac{60}{2} = 12$ Fac_2 , G_0 = 4.98

7-7-12(2,60), reject Ho

(6) Ho: $(3,-\beta_2=\beta_3=\beta_4=0)$ k=4, m=4, h=65. h=h-1=60 $(2^2+a)=0$, $k^2=1$, k=0 k=0.5-0 k=0k=0.5-0 k=0

F> Fa(4,60), Reject Ho

5. at Bitsu=0

61 Ho: Bu=Bs=0, flat at least one at the Bu and Bo is not a

P(Y=1|I)=I=I I=Bo+B, X+B2X2+B3D+B4DX1+B5DiX2

In Lfull=-180 In Lrestrited = -198

Xd= 9.21

Xd= 9.21

X²=Xd, Fajef 140

Cost Approve = C(1/0) × P(Y=0) = 5000× 0.8829 = 4414.5 Cost Approve = C(0/1) × P(Y=1)= 50000× 0.1171 = 5858 Cost approve => Cost Not Approve => Should Approve cand 1 $4.(20) \approx 4.(16) + (\frac{20-16}{22-16}) \left\{ 4.(22) - 4.(16) \right\}$ $=-15+\frac{2}{5}(-45)=-45$ (12(180) 2 42(100) + (180-100) { (12(200) - 42(100) } = 20+ 4 (40-20)= 36 Total score (and 1 = 60 \$ -45+31 = 51 Card 2 4, (15) 2 U, (12) + (15-12) { 4, (16) - 4, (12) } $= 0 + \frac{3}{24} \times (-15) = -11.25$ 42 (120) 2 42 ((00)+ (120-(00)) { (h2200) - h2clou)} = 20+ = (20) = 24 Total score cord 2 = 60-11.25+24=72.75 total sore card 27 total score card the student prefar card 2

5