poto set. (observed fraguescy) Par bus branch Total male 15 45 10 20 prodo 15 25 15 30 35 35 (18 01-01) P(28 21 -00) 3 Expected frequences EP: (Total row) (notal Oten) optal 2001 mala can mak bus = 45 x35 = 15.75 male bicycle = $\frac{45780}{100} = \frac{1350}{100} = \frac{13.5}{100}$ prode by car = 55 x35 = 1928 = 19.25 Jenale bus = 55435 = 19.28

don

chi Savare

$$= (20 - 15.75)^{2} + (10 - 15.75)^{2} + (15 - 18.5)^{2} + (15 - 18.5)^{2} + (15 - 18.5)^{2}$$

$$\frac{(15-19.27)^{2}}{19.27} + \frac{(25-19.27)^{2}}{19.27} + \frac{(15-16.7)^{2}}{16.5}$$

$$= \frac{18.0625}{15.75} + \frac{33.0625}{15.75} + \frac{2.25}{19.25} + \frac{18.0625}{19.25}$$

$$= 1.1468 + 2.099 + 0.1667 + 0.9387 + 1.7174$$

$$+ 0.13636$$

= 6.20896.

degræ of frædom. = (row-1) (adumn -1) = (2-1) (3-1) - 0000 - 200 = (1)(2) ou, response out wolver of pupul (0.05 = 5.991. Agriff conce buel 6.20596 >5.991

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