- 2. (a) ptsd is higher for women who reported childhood sexual abuse than those who did not.
 - (b) There appears to be a positive correlation between ptsd and cpa. PR 3832 (PVIE-193) = +P1888 8
- (c) The interaction term is insignificant, so we fit the model with additive effects

 ptsd = 10.2480 + 0.5506 · cpa - 6.2728 csa
 - (d) For any given value of cpd, the ptsd of women who reported childhood sexual abuse has higher mean level than those who did not. To be more specific, the mean level of ptsd of reported women is 6.2728 unit higher than those who did not report, for any given value of cpd.
 - 3, (a) Ho: \$4=\$5=0; Ha: at least one of \$4 and \$5 is non-zero. $F = \frac{9720281}{2} + 5166633 = 0.9407$

Fo.95, 2,45 is 3.204317, so we fail to reject null hypothesis. We can drop interaction terms.

- (b) Reference class is NEINC.
- (c) \$2= 529.4. The mean response (annual pay) for teachers in South is 529.4 dollars higher than those in NEINC area, for any given of spend.
- (d) $B=t_{1-4/29}, n-k-1$. Now q=3 and n-k-1=47, so B=9t(1-0.05/6,47)=2.482694i) $B_2 \pm S_1 B_2 + 2.482694 = 529.4 \pm 2.482694 \cdot 766.9 = (-1374.578, 2433.378)$

 - ii) B3 ± 51 B3 + 2.482674 = 1674 ± 2.482694.801.2 = (-315.1384, 3663.1384)

 $|iii\rangle S | \beta_2 - \beta_3 T = \sqrt{5^2 \beta_2 1 + 5^2 \beta_3 5 - 25 \beta_2, \beta_3 5}$ $= \sqrt{5^5 88126.71689 + 641873.8 - 2.(744238.02959)}$ $= \sqrt{741524.5}$ $(\hat{\beta}_2 - \hat{\beta}_3) + S | \hat{\beta}_2 - \hat{\beta}_3 5 \cdot 2.482694 = (529.4 - 1674) + 2.482694. \sqrt{741524.5}$ = (-3282.4933.993.2933)

e) All three intervals contain 0, so we may say that geographic region has no significant effect on mean annual salary for teachers, after taking spend perstudent into consideration.

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