c) Step 3. get critical value from the chosen significance

5% level, for F with DF (q=2, N-k-1=761)

TWO TAIL $H_1\beta_3 \neq 0$ or $\beta_4 \neq 0$ or both

| Appendix & Statistical Tables APPEND G.3a ON Official Values of the F Distribution | | | | | | | | | | | | | Appendix G Statistical Tables 1584 ByG.3b 5% Grid al Values of the F Distribution | | | | | | | 5% | | | |
|--|----------|-----------|------------|------|---------|----------|------|--------|-------|------|-------------|--------|---|------|------|-------|---------|---------|----------|-----------|----------------|--|-------------|
| Numerator Degrees of Freedom | | | | | | | | | | | | T | | / | | - | | | | | | | |
| | 10 | 3.20 | - | - | 4 | 5 | 6 | 7 | 8 | 9 | 10 | - | | 1 | 7 | | Numera | tor Deg | trees of | Freed | em_ | | |
| D | 1 11 | 3.23 | | | 1 | 1 | | 107550 | 2.38 | 1 | | - | 1 | 1 | - | 1. | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | 12 | | | | 1 | | | 2.34 | 2.30 | | - 1 7 7 7 7 | | 110 | 100 | | | 4 1000 | 20000 | | 3.14 | 3.07 | 3.02 | 2.98 |
| | 13 | 3.14 | | | | The same | 2.28 | 2.23 | 2.20 | | 1 | D | 1 15 | | | | 100.000 | | 18 18 18 | 1 | C. S. Williams | 2.90 | 2.85 |
| 1 | 14 | 3.10 | 2.73 | 2.52 | 2.39 | 2.31 | 2.24 | 2.19 | 2.15 | 2.12 | 2.10 | 0 | | | | | - | | 3.00 | S. MICA | - | 2.80 | 2.75 |
| | 15 | 3.07 | 2.70 | 1 | S money | | 2.21 | 2.16 | 2.12 | 2.09 | 2.06 | o m | 1 | 4.60 | 3.7 | 4 3.3 | | 2.96 | 2.85 | 2.83 | | 2.71 | 2.67 |
| | 16 | 3.05 | 2.67 | 2.46 | | 1 | 2.18 | 2.13 | 2.09 | 2.06 | 2.03 | 1 | 15 | 4.54 | 3.6 | 8 3.2 | 3.06 | 2.90 | 2.79 | 2.71 | - | - | 2.60 |
| | 18 | 3.01 | 2.62 | 2.44 | | 2.22 | 2.15 | 2.10 | 2.06 | 2.03 | 2.00 | n | 16 | 4.49 | 1 | 1000 | | 2.85 | 2.74 | 2.66 | 2.64 | 2.59 | 2.54 |
| | 19 | 2.99 | 2.61 | 2.40 | | 2.20 | 2.13 | 2.08 | 2.04 | 2.00 | 1.98 | 1 | 17 | 4.43 | 0.00 | | 200 | 2.81 | 2.70 | 2.61 | 2.55 | 2.49 | 2.49 |
| | 20 | 2.97 | 2.59 | 2.38 | 2.25 | 2.16 | - | - | 2.02 | 1.98 | 1.96 | 0 | 19 | 4.41 | 3.55 | | | 2.77 | 2.66 | 2.58 | 2.51 | 2.46 | 2.41 |
| | 21 | 2.96 | 2.57 | 2.36 | 2.23 | 2.14 | 2.09 | 2.04 | 1.98 | 1.96 | 1.94 | D | 20 | 4.35 | - | - | - | 2.74 | 2.63 | 2.54 | 2.48 | 2.42 | 2.38 |
| | 22 | 2.95 | 2.56 | 2.35 | 2.22 | 2.13 | 2.05 | 2.01 | 1.97 | 1.95 | 1.92 | 0 | 21 | 4.33 | 3.49 | 2 | 2.87 | 2.71 | 2.60 | 2.51 | 2.45 | 2.39 | 2.35 |
| | 23 | 2.94 | 2.55 | 2.34 | 2.21 | 2.11 | 2.05 | 1.99 | 1.95 | 1.92 | 1.89 | E | 22 | 4.30 | 3.44 | 3.05 | 2.82 | 2.68 | 2.57 | 2.49 | 2.42 | 2.37 | 2.32 |
| ŀ | 25 | minuses. | 2.54 | 2.33 | 2.19 | 2.10 | 2.04 | 1.98 | 1.94 | 1.91 | 1.88 | 0 | 23 | 4.28 | 3.42 | 3.03 | 2.80 | 2.64 | 2.53 | 2.46 | 2.40 | 2.34 | 2.30 |
| | 26 | 2.92 | 2.53 | 2.32 | 2.18 | 2.09 | 2.02 | 1.97 | 1.93 | 1.89 | 1.87 | 8 | 24 | 4.26 | 3.40 | 3.01 | 2.78 | 2.62 | 2.51 | 2.42 | 2.36 | | 2.27 |
| | 27 | 2.90 | 2.51 | 2.30 | 2.17 | 2.08 | 2.01 | 1.96 | 1.92 | 1.88 | 1.86 | | 25 | 4.24 | 3.39 | 2.99 | 2.76 | 2.60 | 2.49 | 2.40 | 2.34 | noneman. | 2.24 |
| | 28 | 2.89 | 2.50 | 2.29 | 2.16 | 2.06 | 2.00 | 1.95 | 1.91 | 1.87 | 1.85 | 1 | 26 | 4.23 | 3.37 | 2.98 | 2.74 | 2.59 | 2.47 | 2.39 | 2.32 | 4.00 | 2.24 |
| | 29 | 2.89 | 2.50 | 2.28 | 2.15 | 2.06 | 1.99 | 1.93 | 1.89 | 1.87 | 1.84 | F | 28 | 4.20 | 3.35 | 2.96 | 2.73 | 2.57 | 2.46 | 2.37 | 2.31 | 2000 | 2.20 |
| | 30 | 2.88 | 2.49 | 2.28 | 2.14 | 2.05 | 1.98 | 1.93 | 1.88 | 1.85 | 1.82 | r | 29 | 4.18 | 3.33 | 2.93 | 2.71 | | 2.45 | 2.36 | 2.29 | | 2.19 |
| | 40 | 2.84 | 2.44 | 2.23 | 2.09 | 2.00 | 1.93 | 1.87 | 1.83 | 1.79 | 1.76 | 6 | 30 | 4.17 | 3.32 | 2.92 | 2.69 | | | 2.35 | William . | 2.22 | 2.18 |
| | 60 90 | 2.79 | 2.39 | 2.18 | 2.04 | 1 | 1.87 | | 1.77 | 1.74 | 1.71 | 1 | 200 | 4.08 | 3.23 | 2.84 | 2.61 | 2 3000 | A COLUMN | 2.33 | 2.27 | W 100 100 100 100 100 100 100 100 100 10 | 2.16 |
| | - | 2.75 | 2.36 | 2.15 | 2.01 | 4 | | 2000 | 1.74 | 1.70 | 1.67 | m | THE RESERVE | 4.00 | 3.15 | 2.76 | 2.53 | | 1 | | 4 640 | | 80.5 |
| | 8 | | - | - | 1.99 | - | 1.82 | 1.77 | 1.72 | 1.68 | 1.65 | 1 | 10000 | 3.95 | 3.10 | 2.71 | 2.47 | | | 7 7 7 7 7 | 10000 | | .99 |
| | 1 | 2,71 | 2.30 | 2.08 | 1.94 | 1.85 | 1.77 | 1.72 | 1.67 | 1.63 | 1.60 | 1 | - | - | 3.07 | 2.68 | 2.45 | | | 2 00 | | | 91 |
| | Chie sub | W. mities | d value of | - | | | 3 | | 2.44. | - | - | 1 | 80 / | 3.84 | 3.00 | 2.60 | 2.37 | 2.21 2 | 10 | 2.01 | | .88 1 | The same of |

What about at 10%?

 $F^{10\%} =$

 $F^{5\%}(2,761)=3$