

6

4. [-/8 Points]

DETAILS

PRIVITERASTATS3 12.E.015.

MY NOTES

ASK YOUR TEACHER

What is the decision at a 0.05 level of significance for each of the following tests? *Hint:* Find the critical value for each test; then make a decision. (Round your critical values to two decimal places.)

Part (a)

$$F(3, 25) = 3.03$$

$$F_{crit} = \boxed{}$$

☐ Retain the null hypothesis.

☐ Reject the null hypothesis.

Part (b)

$$F(5, 25) = 2.42$$

$$F_{crit} = \boxed{}$$

☐ Retain the null hypothesis.

☐ Reject the null hypothesis.

Part (c)

$$F(4, 31) = 2.73$$

$$F_{crit} = \boxed{}$$

☐ Retain the null hypothesis.

☐ Reject the null hypothesis.

Part (d)

$$F(2, 14) = 3.61$$

$$F_{crit} = \boxed{}$$

☐ Retain the null hypothesis.

☐ Reject the null hypothesis.

You may need to use the appropriate table in [Appendix C](#) to answer this question.

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5. [-/3 Points]

DETAILS

PRIVITERASTATS3 12.E.019.

MY NOTES

ASK YOUR TEACHER

A researcher measures job satisfaction among married, single, and divorced employees to determine whether marital status can influence job satisfaction. Based on the following description in APA format, state the value for k , N , and n .

A one-way analysis of variance showed that job satisfaction did not vary by marital status, $F(2, 24) = 1.73, p > 0.05$.

$$k = \boxed{}$$

$$N = \boxed{}$$

$$n = \boxed{}$$