Congratulations! You passed!
Grade received 100%
To pass 80% or higher
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1. Fill in the blank: Adjusted R squared is a variation of the R squared regression evaluation metric that _____ unnecessary explanatory variables. 1 / 1 point

- ○ rewards
- ○ eliminates
- ◉ penalizes
- ○ adds

Correct
Adjusted R squared is a variation of the R squared regression evaluation metric that penalizes unnecessary explanatory variables. Similar to R squared, adjusted R squared varies from less than 0 to 1.

2. Which of the following statements accurately describe the differences between adjusted R squared and R squared? Select all that apply. 1 / 1 point

- ☐ Adjusted R squared is easily interpretable.
- ☐ R squared is used to compare models of varying complexity.
- ☑ R squared is more easily interpretable.

Correct
R squared determines how much variation in the dependent variable is explained by the model. Another difference is adjusted R squared is used to compare models of varying complexity.

- ☑ Adjusted R squared is used to compare models of varying complexity.

Correct
Adjusted R squared is used to compare models of varying complexity. R squared is more easily interpretable.

3. What variable section process begins with the full model that has all possible independent variables? 1 / 1 point

- ○ Extra-sum-of Squares
- ○ Forward selection
- ◉ Backward elimination
- ○ F-test

Correct
The backward elimination variable section process begins with the full model.

4. Which of the following are regularized regression techniques? Select all that apply. 1 / 1 point

- [x] Elastic-net regression

  Correct
  Lasso regression, ridge regression, and elastic-net regression are regularized regression techniques.

- [x] Ridge regression

  Correct
  Lasso regression, ridge regression, and elastic-net regression are regularized regression techniques.

- [ ] F-test regression
- [x] Lasso regression

  Correct
  Lasso regression, ridge regression, and elastic-net regression are regularized regression techniques.