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## 2.5: Prediction Interval of a New Response

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## Topic 2.5: Prediction Interval of a New Response

Read Section 2.5 of your textbook. As you read, take notes on the following questions.

- 1. Write down the formula for the prediction interval of a new response. For this prediction interval:
  - How does increasing the level of confidence affect the width of this interval?
  - How does model fit affect the width of this interval?
  - How does the width of this change as the value of the predictor variable moves farther away from the sample mean of the predictor?
- 2. Describe, in your own words, what a prediction interval of a new response tells us.
- 3. Compare the standard errors associated with the confidence interval of the mean response and the prediction interval of a new response. Which is larger? Explain why that answer makes practical sense.

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