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7.R Review Questions

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7.R.R1

1/1 point (graded)

Load the data from the file `7.R.RData`, and plot it using `plot(x,y)`. What is the slope coefficient in a linear regression of `y` on `x` (to within 10%)?

✓ Answer: -0.6748

−0.6748

Explanation

The slope is negative for most of the data, and the coefficient reflects that.

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i Answers are displayed within the problem

7.R.R2

1/1 point (graded)

For the model $y \sim 1 + x + x^2$, what is the coefficient of `x` (to within 10%)?

✓ Answer: 77.7

77.7

Explanation

Despite the fact that the overall slope is slightly negative, the linear term is very positive. Because the values of `x` are far from zero, a large linear term is needed to offset the quadratic term; otherwise the slope would be very negative in the

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range of the data. This is why we usually do not interpret the lower-order terms in a polynomial regression.

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