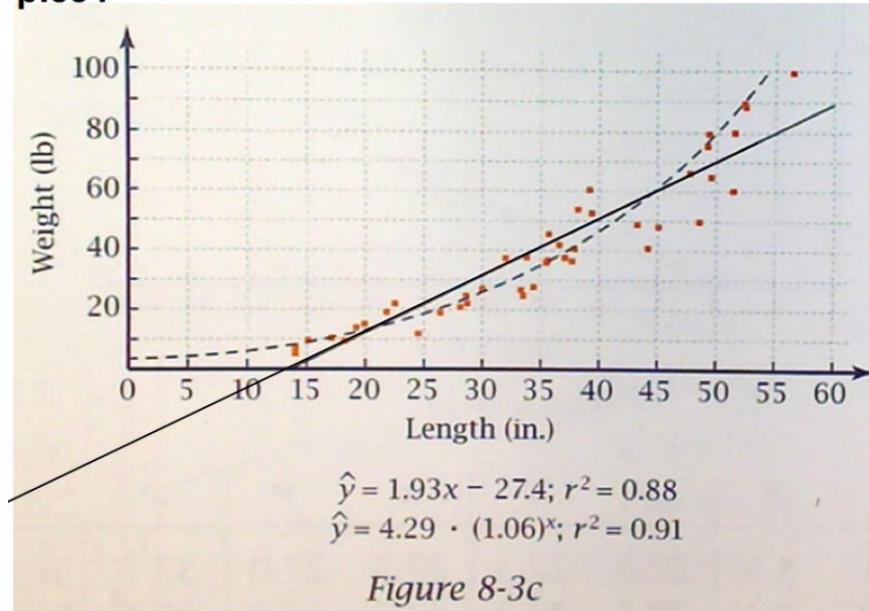


Section 8-3 Regression for Nonlinear Data

Linear Regression does not fit very well here. How can you tell?

This is a scatterplot of fish weight, y , versus length, x .

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Since the data curves upward, a reasonable model would either be an exponential function or a power function. To decide which of the two is more reasonable, consider the **endpoint behavior**. (The graph at the left side of the domain should contain the origin, why?)

Power regression gives $y = 0.0606x^{1.7990}$ where $r = 0.9669$

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