Help

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6.00.2x Lab: Curve Fitting

We're trying out an experimental type of problem in this iteration of 6.00.2x. Try it out and let us know what you think!

Step 1: Data

Mobile cellular subscriptions

Step 2: Parameters

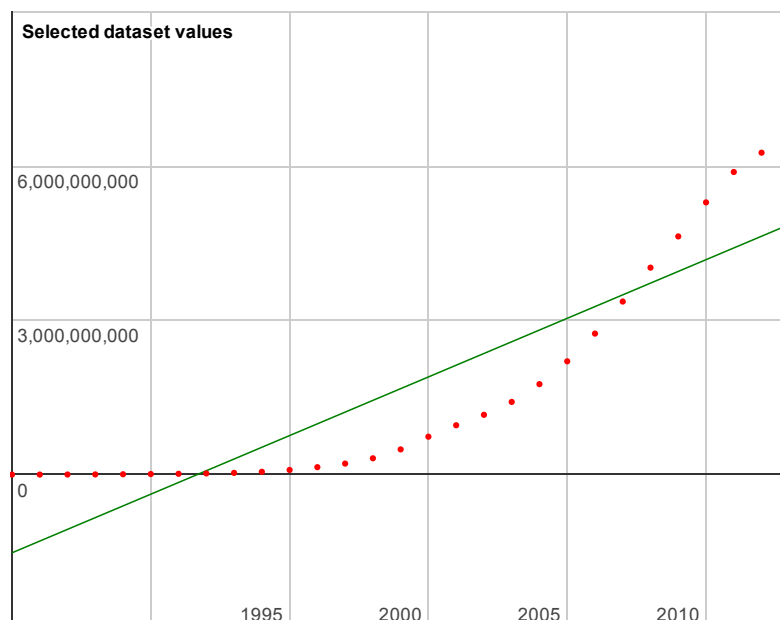Specify your curve fitting parameters below.

Regression method

Linear

Degree of polynomial fit:

2

Step 3: Fitting

Your selected dataset and fitted curve is plotted below.

Sum of squared error:

2.8871e+19
Equation:
y = 228169439.34x + -454437

In the "GDP per capita" dataset, is a polynomial of degree 18 a better fit than a straight line?

- ⦿ Yes ✔
- ○ No

In the "GDP per capita" dataset, what are possible dangers of fitting a more complicated model to the data (overfitting)? Check all that apply.

- ☑ Modeling noise in the data.
- ☑ Bad predictive value for new data not part of existing dataset.
- ☐ A low sum of squares error makes the fit look "too good".

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