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Exercise 2

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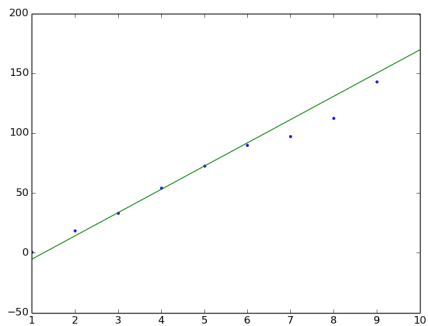
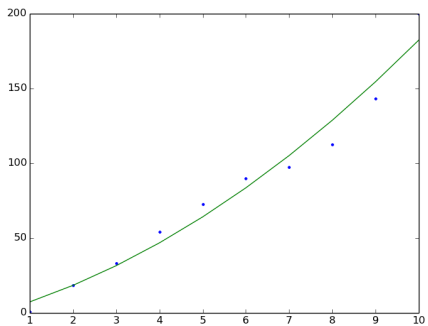
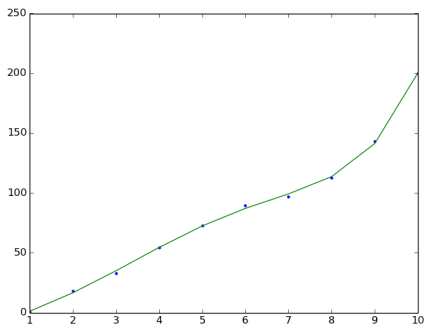
Exercise 2

6/6 points (graded)

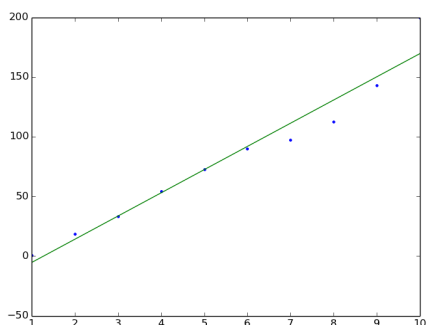
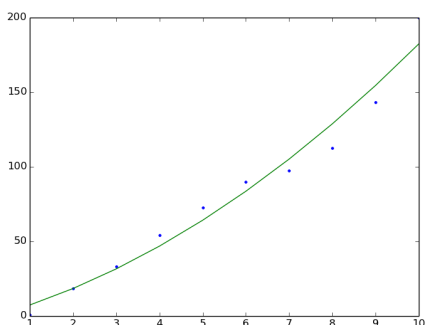
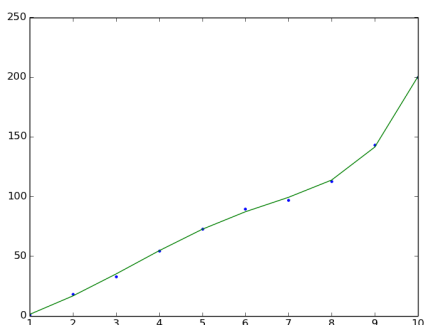
Suppose you are given the following data and are asked to fit a curve to this data.

A = [1,2,3,4,5,6,7,8,9,10]
L = [0.59,18.38, 33.01, 54.14, 72.48, 89.8, 97.07, 112.6, 142.87, 199.84]

1. Match each plot with the correct polynomial fit.

		
Fit 1	Fit 2	Fit 3
<input checked="" type="radio"/> Linear	<input type="radio"/> Linear	<input type="radio"/> Linear
<input type="radio"/> Polynomial of degree 2	<input checked="" type="radio"/> Polynomial of degree 2	<input type="radio"/> Polynomial of degree 2
<input type="radio"/> Polynomial of degree 5	<input type="radio"/> Polynomial of degree 5	<input checked="" type="radio"/> Polynomial of degree 5
✓	✓	✓

2. Is each fit an example of overfitting?

		
Fit 1	Fit 2	Fit 3
<input type="radio"/> Yes	<input type="radio"/> Yes	<input checked="" type="radio"/> Yes
<input checked="" type="radio"/> No	<input checked="" type="radio"/> No	<input type="radio"/> No
✓	✓	✓

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Exercise 2

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