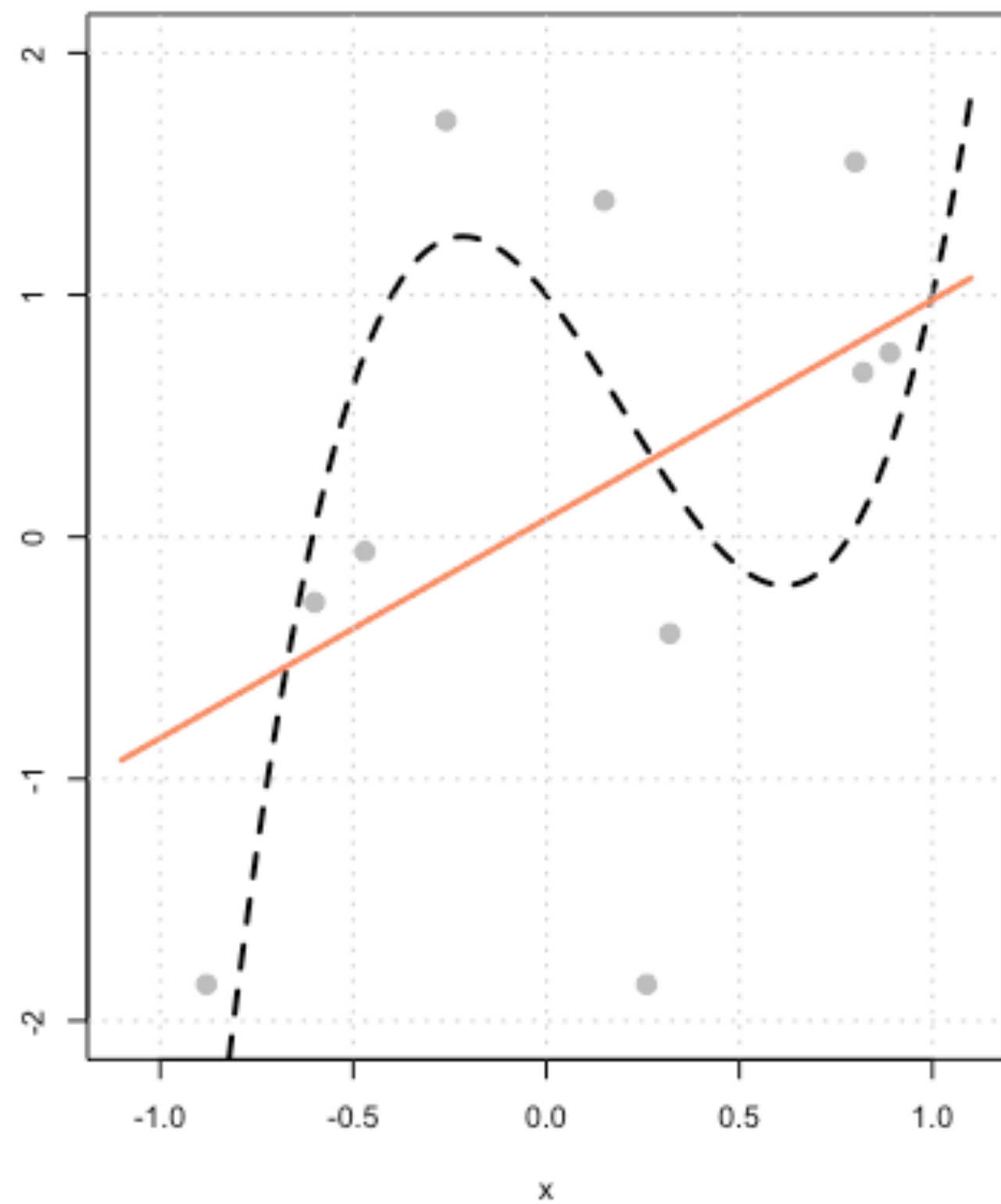




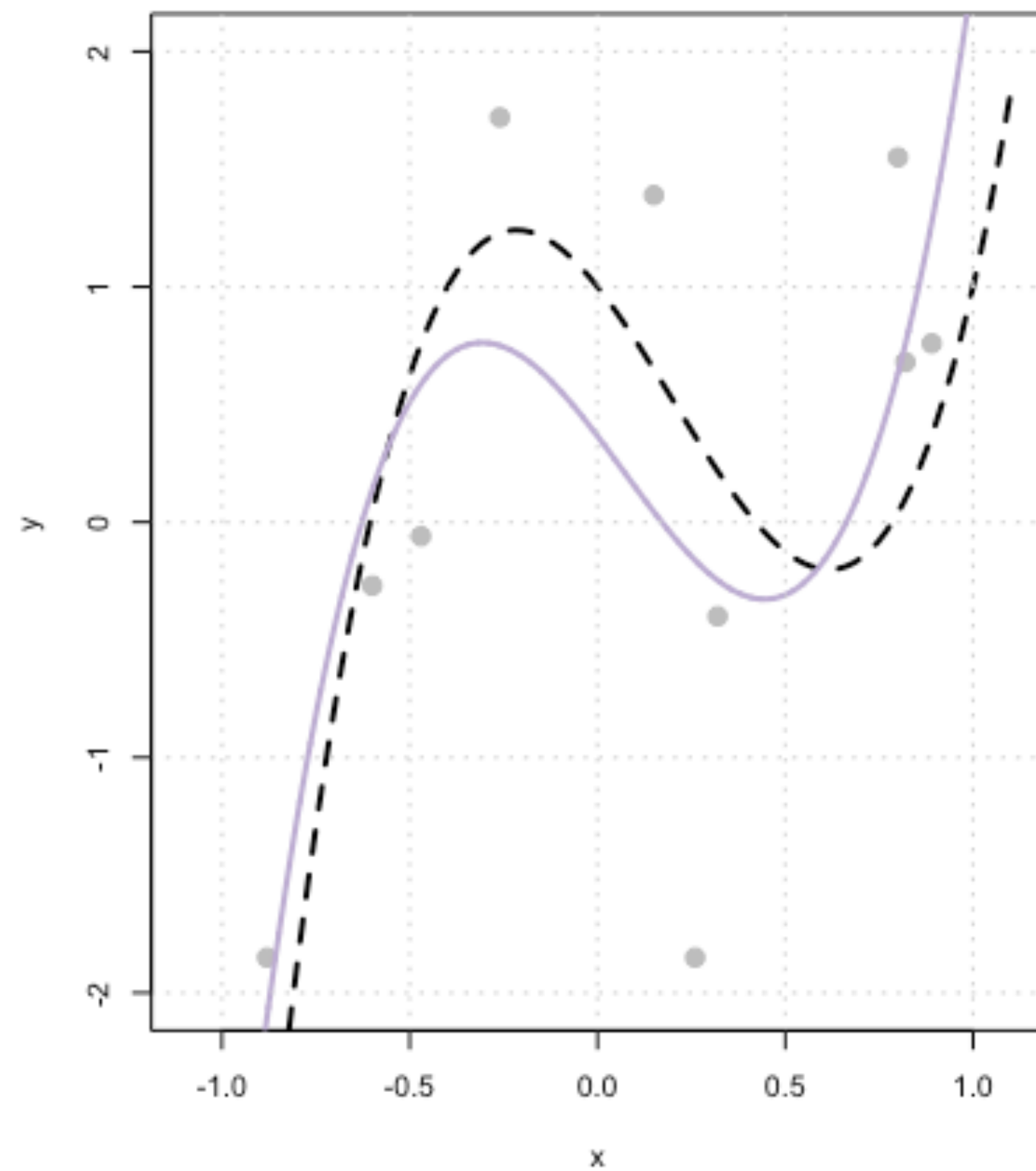
**A Simulation Example**

- How close is the estimated regression (mean) function to the data?
- How close is the estimated regression (mean) function to the true regression (mean) function?

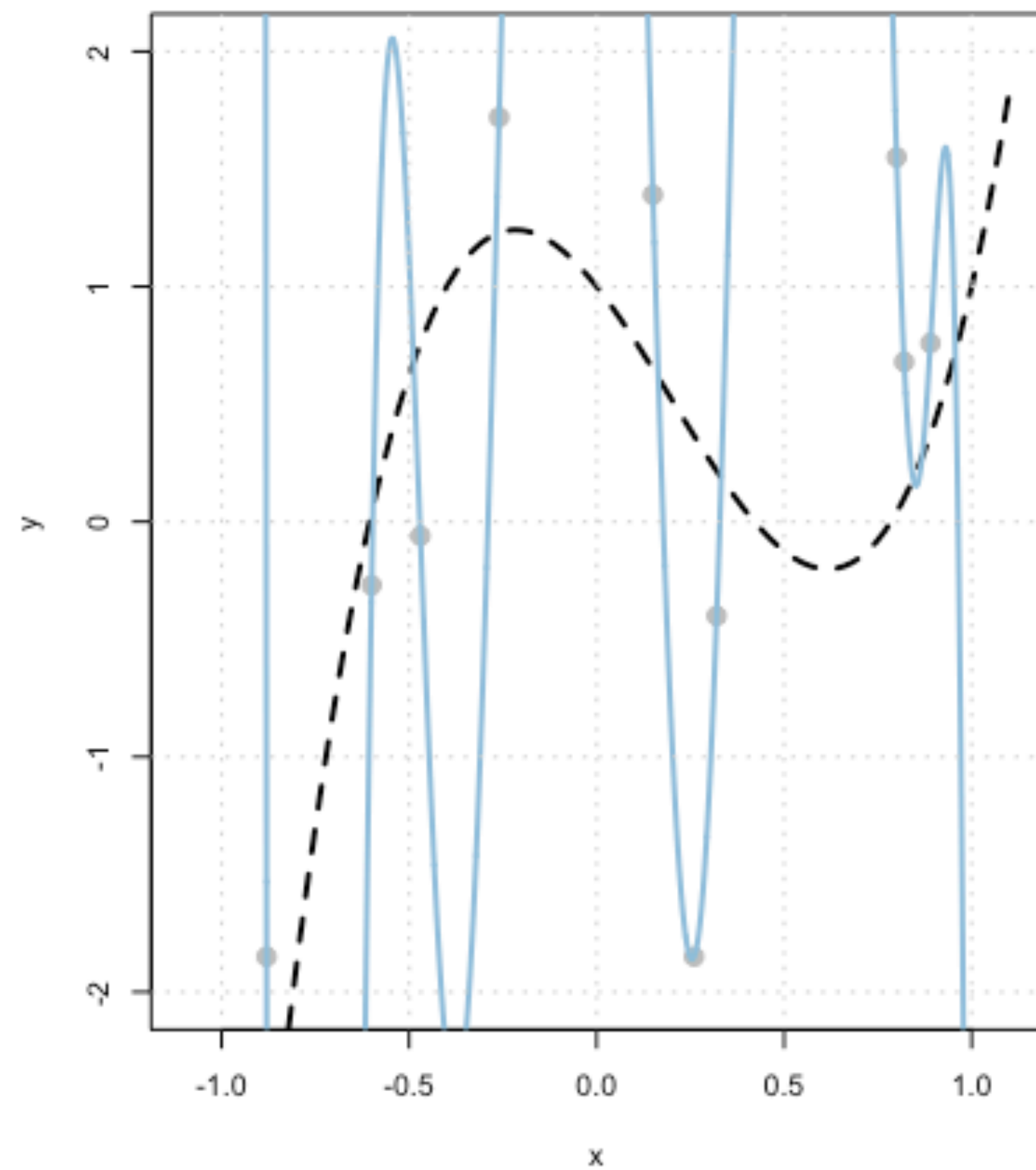
Degree 1 Polynomial



Degree 3 Polynomial



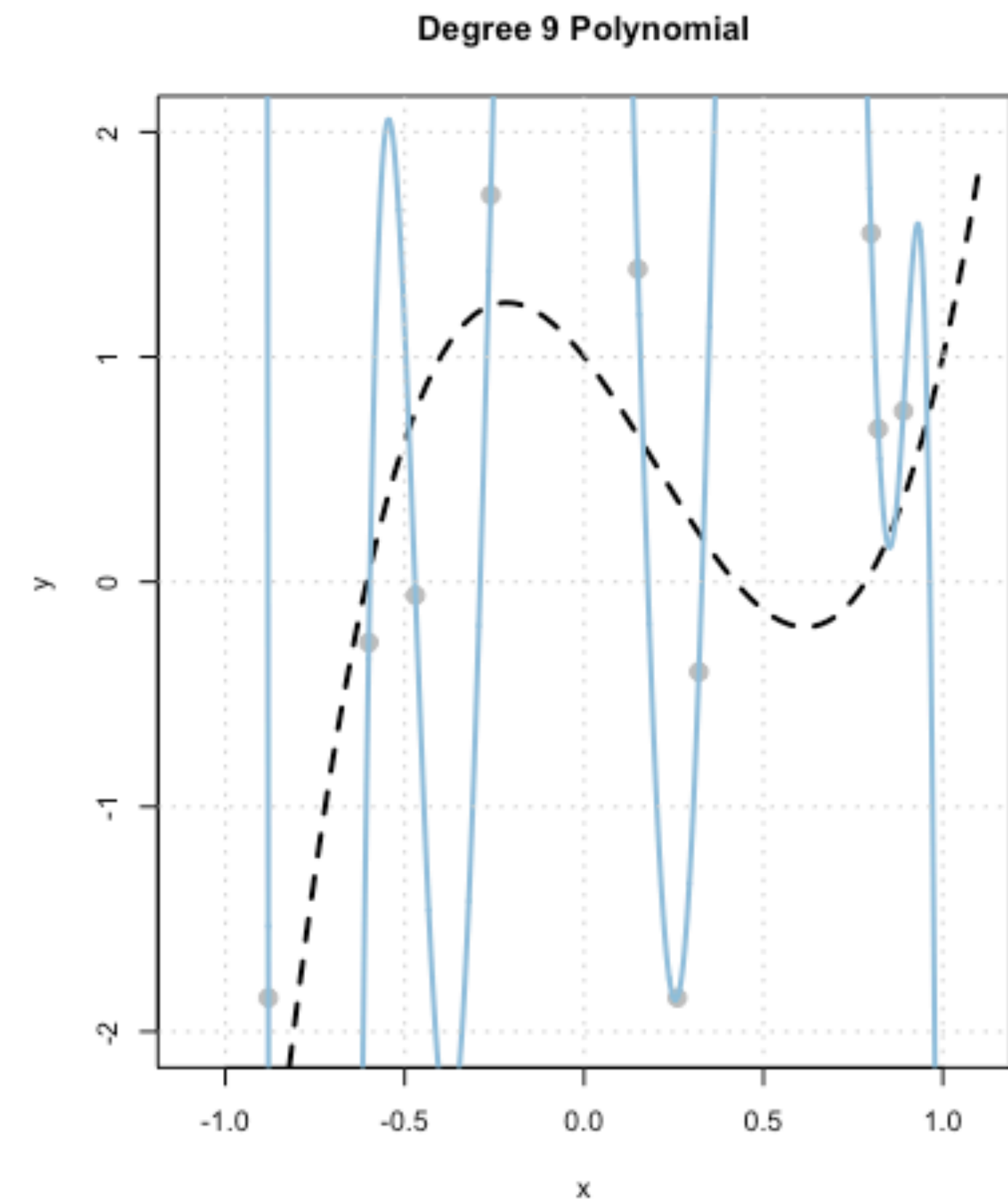
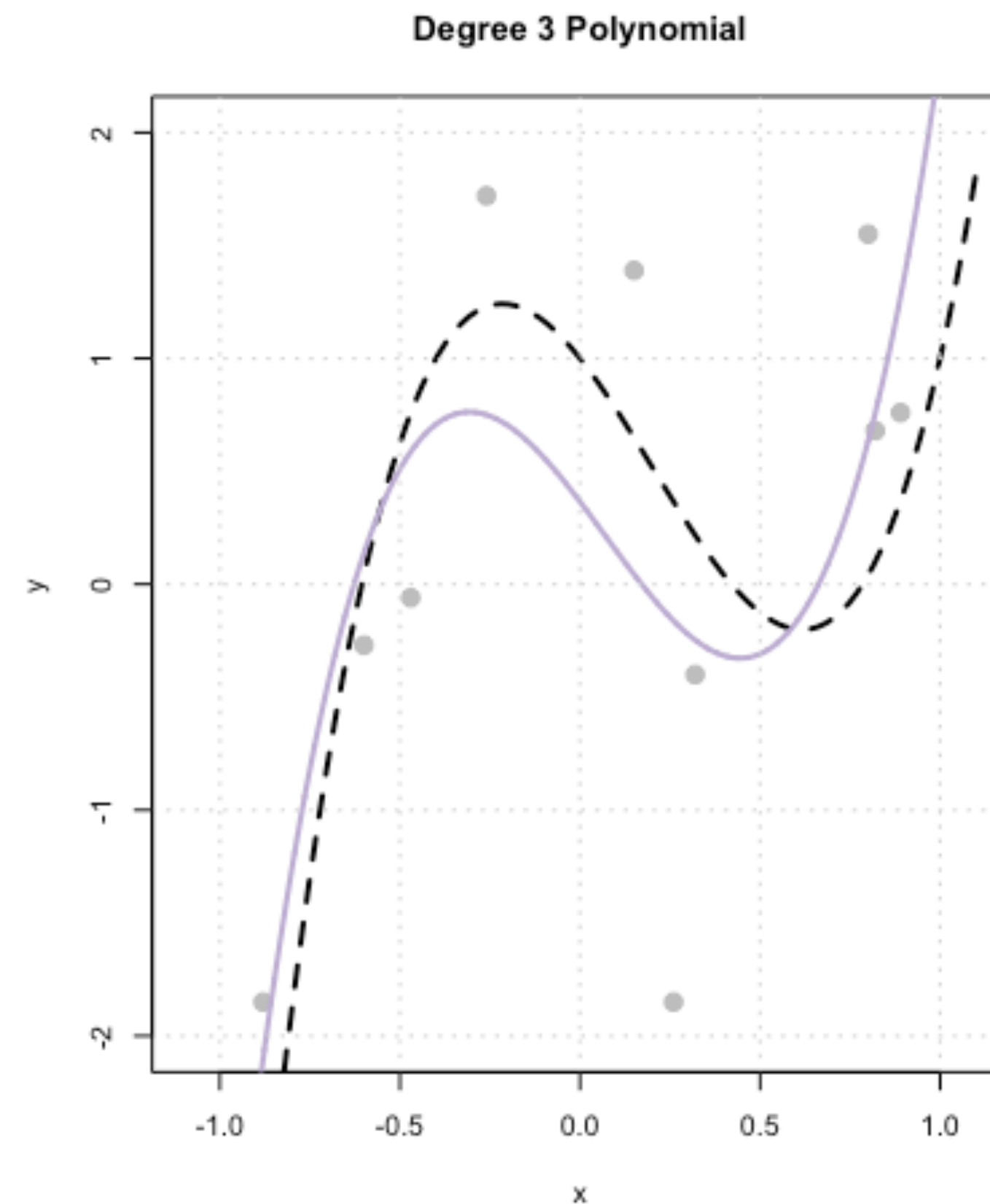
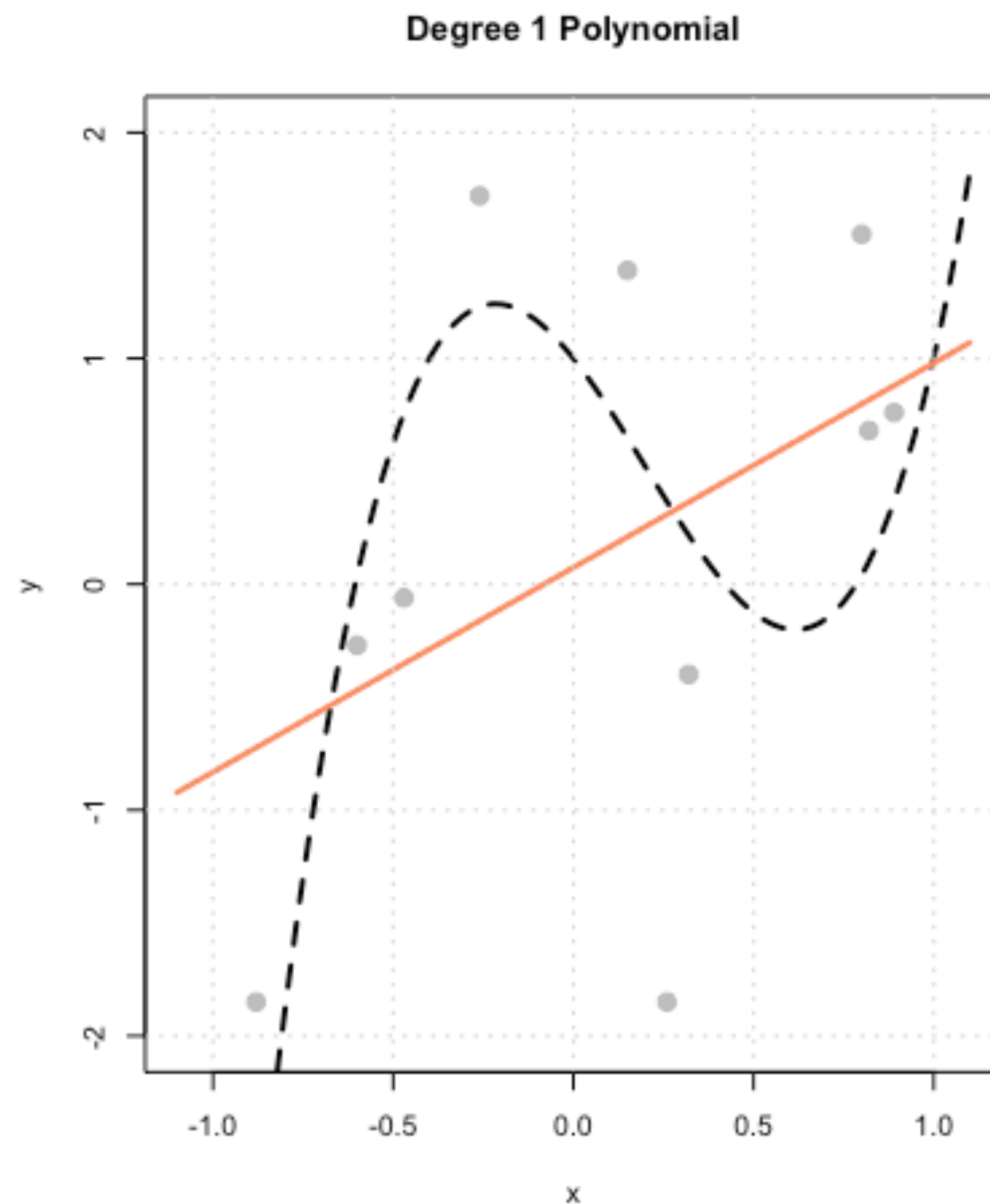
Degree 9 Polynomial



- How close is the estimated regression (mean) function to the data?
- How close is the estimated regression (mean) function to the true regression (mean) function?

# A Simulation Example

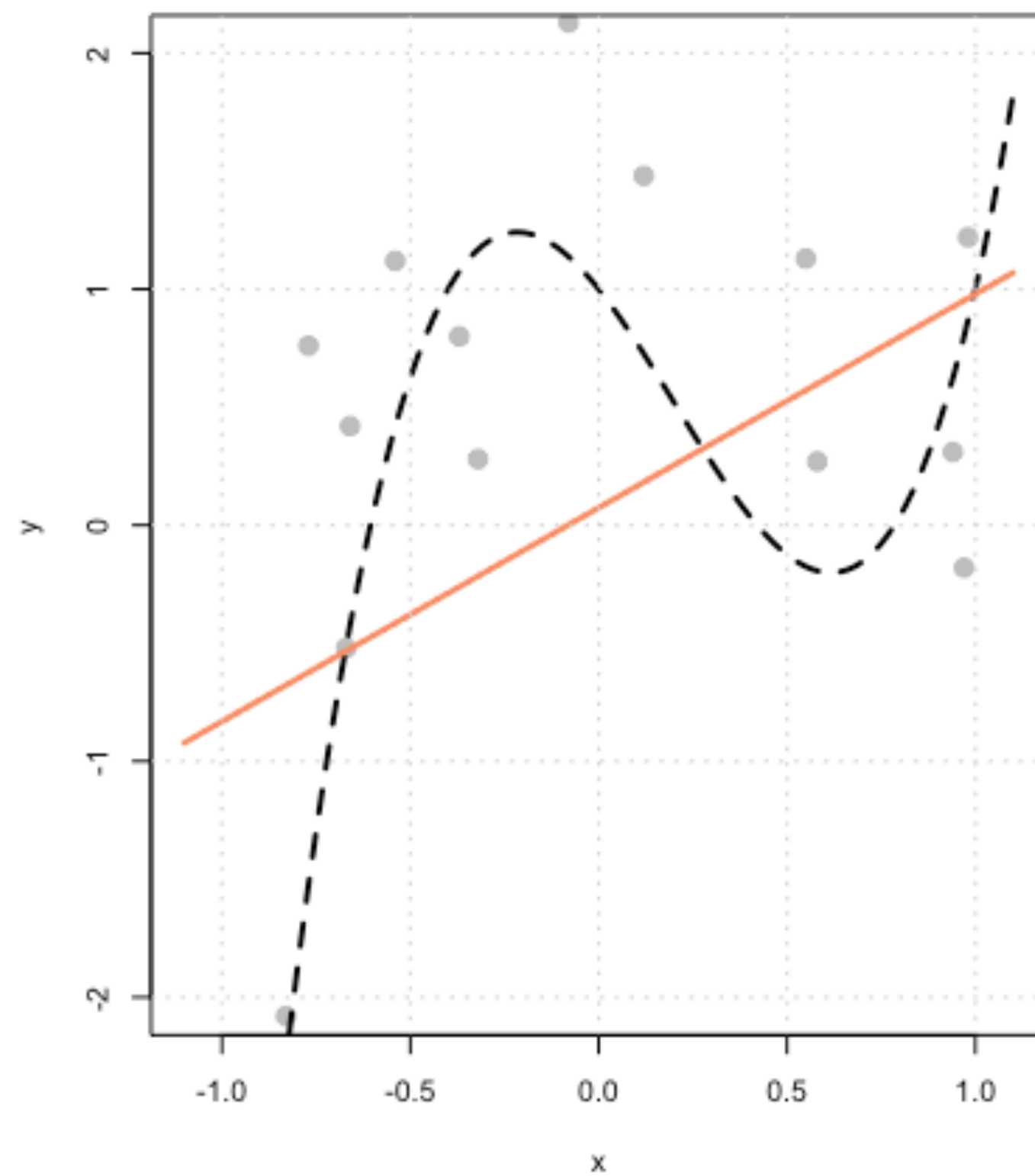
- How close is the estimated regression (mean) function to the data?
- How close is the estimated regression (mean) function to the true regression (mean) function?



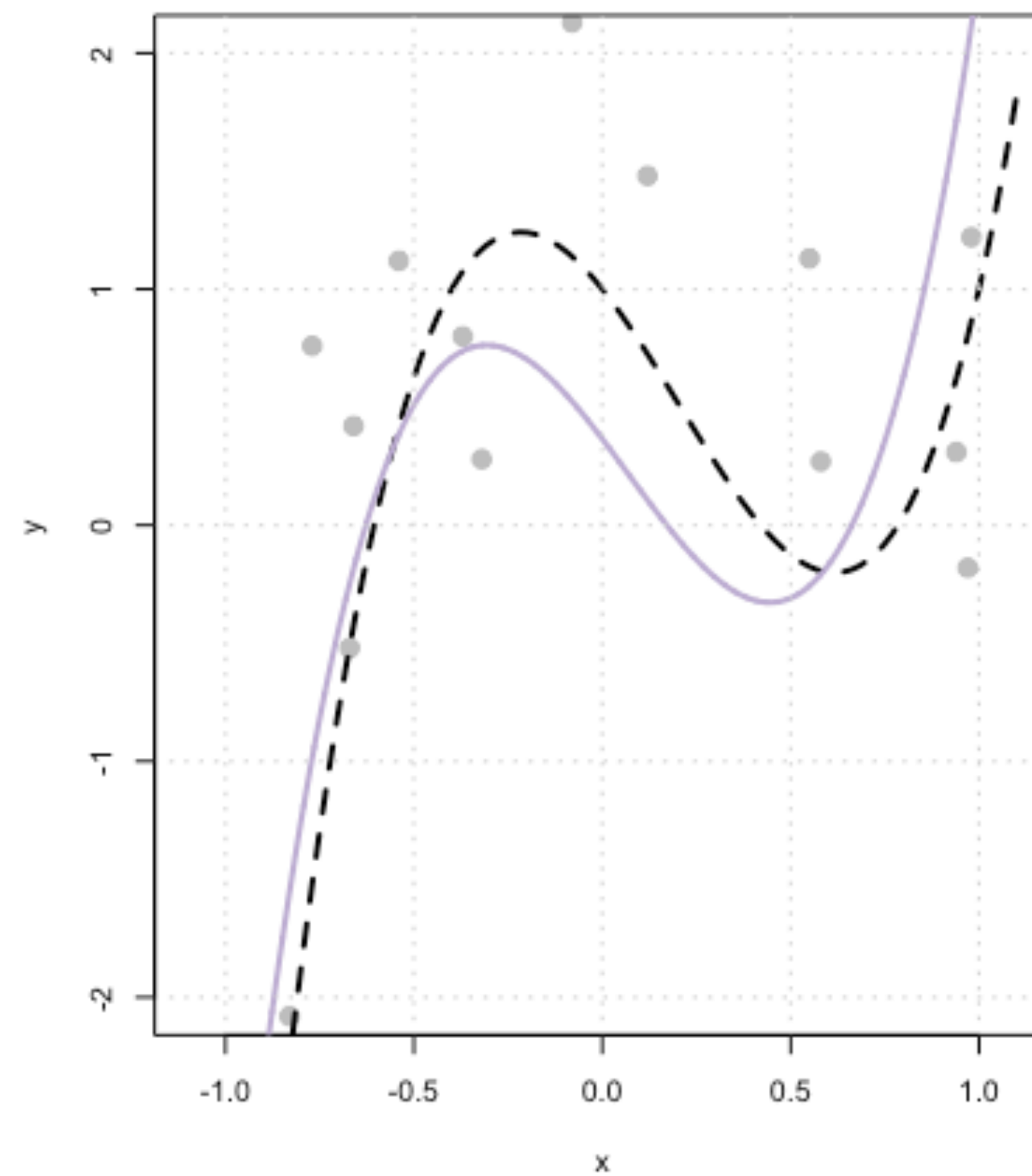
# A Simulation Example

Generate new data and check...

Degree 1 Polynomial | New Data



Degree 3 Polynomial | New Data



Degree 9 Polynomial | New Data

