

DS002.6.1 Statistics, Inference, Gradient Descent

Homework: finish the dice rolling lab from last week. How did it go?

- **DS002_rollingdice**
- ***newtemplate*DS002_rollingdice**



*Lucky
Gas*

a new file: `statistics.py`

Use [this template](#)

The file will contain:

`mean()`

`mode()`

`median()`

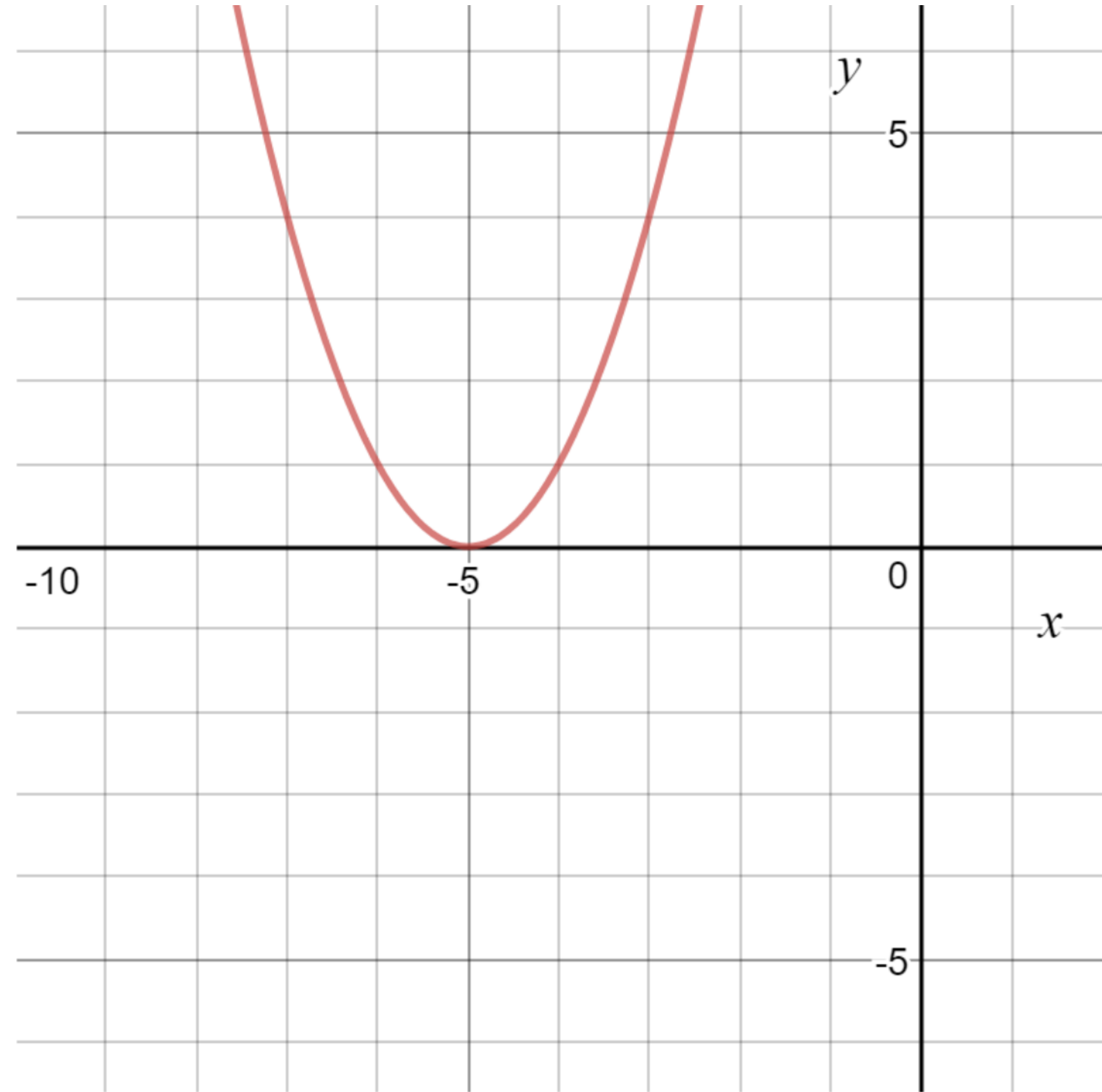
`standard_deviation()`

`correlation()`

Gradient Descent presentation.

Gradient Descent in Python

Gradient Descent



**Gradient Descent: What's
the fastest way down
from foggy mountain?**



Gradient Descent: What's the fastest way down from foggy mountain?

- 1. can't see down**
- 2. look up to guess the steepest way down**

Gradient Descent: What's the fastest way down from foggy mountain?

- 1. How do you determine the steepest slope?
(calculate slope)**
- 2. What direction do you go? (gradient of the
surface)**
- 3. How far do you go down before looking up again?
(~ Step size)**