

Homework 5

Jacqueline Antwi-Danso

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1 PROBLEM 2

a) What are the best-fit values of the parameters?

Linear Fit

Slope : 4.14 ± 0.24

Intercept : 17.8 ± 0.05

Quadratic Fit

For $y = ax^2 + bx + c$

a : -1.95 ± 0.24

b : 6.13 ± 0.33

c : 17.7 ± 0.05

Broken Line Fit

Slope 1 : 5.11 ± 0.28

Intercept 1 : 17.7 ± 0.06

Slope 2 : 0.835 ± 0.231

Intercept 2 : 18.3 ± 0.58

b) Which function fits the data best?

The quadratic function passes through more points than any other, so fits the data best.