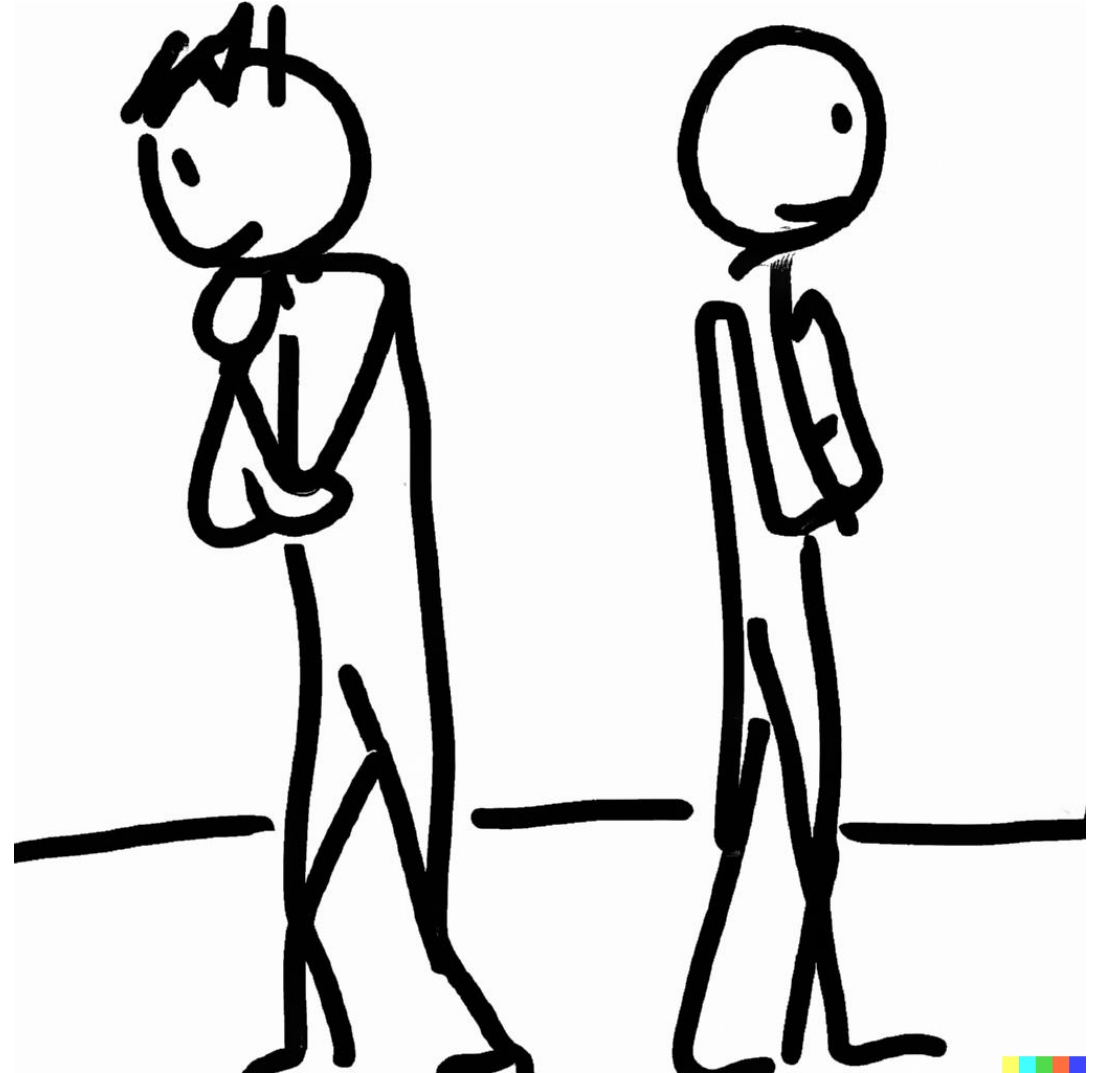


Mathematical background

Functions

Notes on Behavioural Economics

Jason Collins



Exponentiation

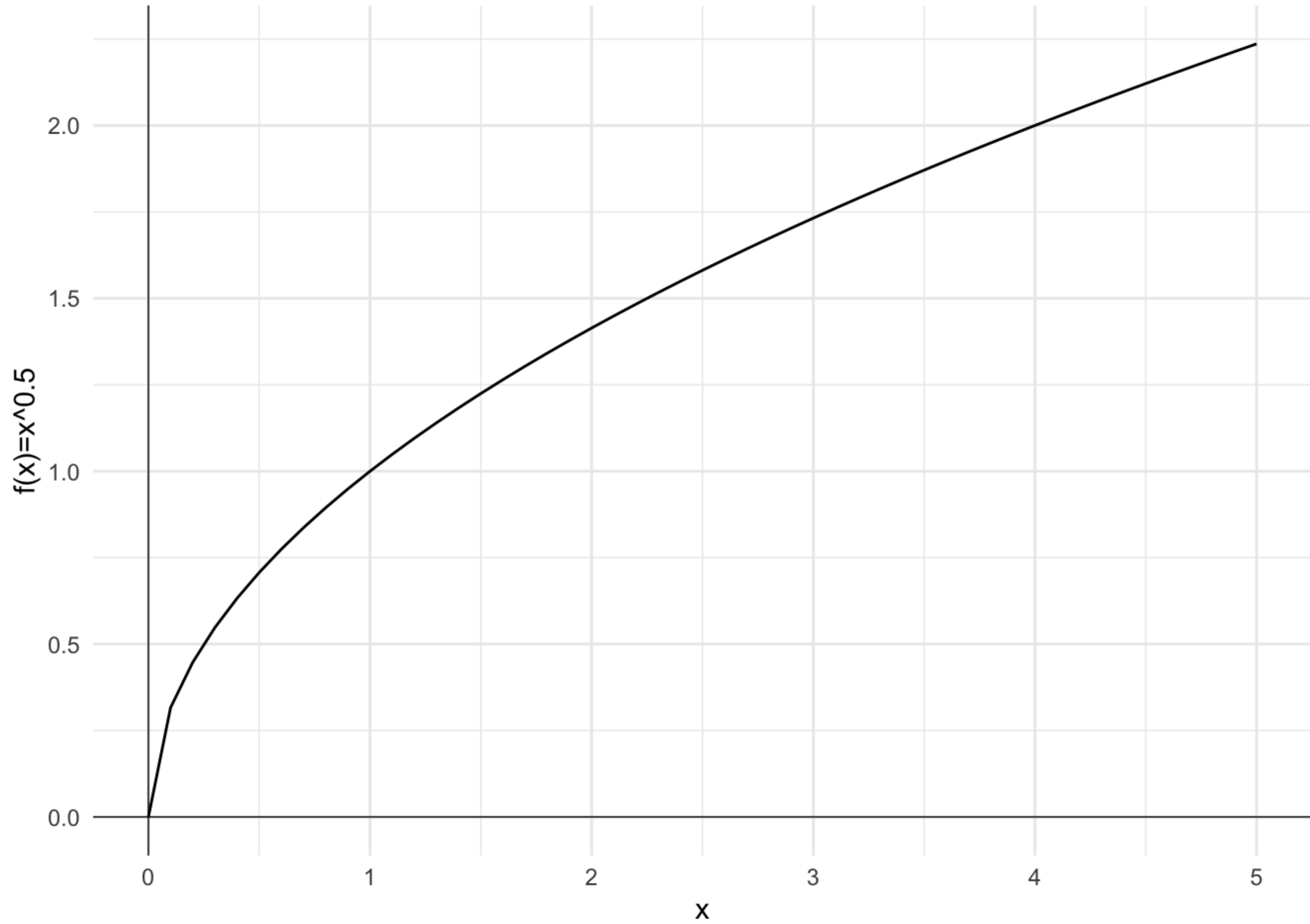
$$f(x) = x^a$$

Exponentiation

$$2^3 = 2 \times 2 \times 2 = 8$$

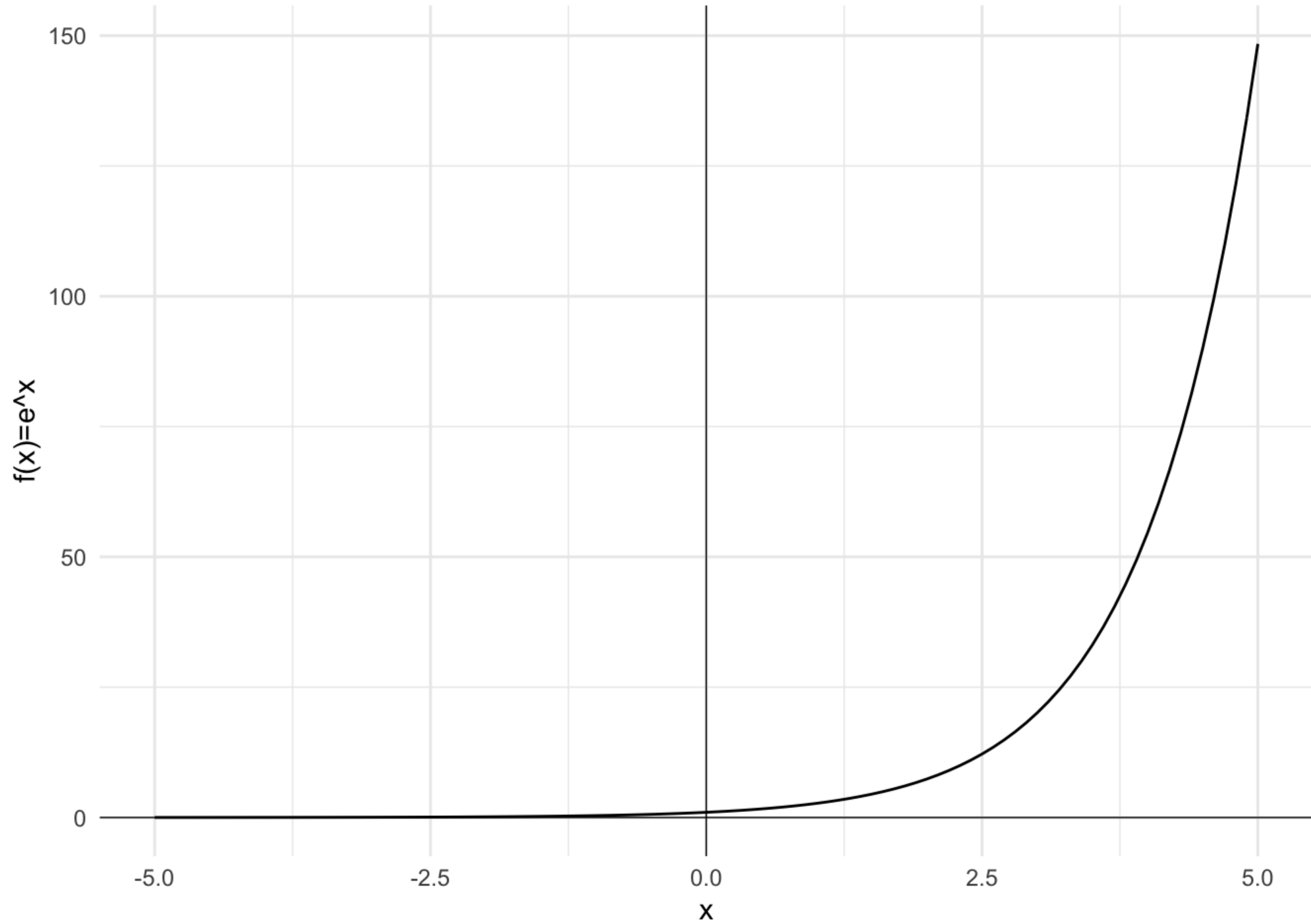
Exponentiation

$$f(x) = x^a$$



The exponential function

$$f(x) = e^x$$



The logarithmic function

$$f(x) = \ln(x) = \log_e(x)$$

The logarithmic function

$$\text{If } f(x) = e^x \text{ then } x = \ln(f(x))$$

