parameters of functions

parameters: the numbers in the function formula that make one function different from another one in the same family

parameters can relate to the context by representing:

- rate of change
- starting amount / y-intercept
- minimum / maximum
- amplitude, period, frequency, phase shift, ...
- etc.

examples:

$f(x) = -2x + 5$

☐ is starting amount

function goes down by ☐ every time

$f(x) = 4 \cdot 1.03^x$

☐ is starting amount

☐ is growth rate (function increases by ☐ % each time)

$f(x) = 30 + 25 \sin(18x° + 90°)$

☐ is the midline / average value

☐ is the amplitude / radius

☐ is rotational speed (deg per sec)

☐ is phase shift

$f(x) = |x - 46|$

☐ is Shakira's age

x represents a guess for Shakira's age

f(x) represents how far off the guess was

$f(x) = 1000 \, e^{0.065x}$

☐ is the starting amount

☐ is the annual interest of ☐ %, compounded continuously

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