F · Exponentials and logarithms

AQA · A-Level · Mathematics · Vocabulary in context

Word	Example
logarithm /ˈlɒgərɪθəm/	Take the **logarithm** of both sides.
base /beɪs/	In $\log_2 8 = 3$, the **base** is 2. $\log_2 8 = 3$ 2
exponential function /ˌekspəˈnenʃl ˈfʌŋkʃn/	The **exponential function** e^x is its own derivative. e^x
asymptote /ˈæsɪmptəʊt/	The graph of $y = e^x$ has a horizontal **asymptote** at $y = 0$. $y = e^x$ $y = 0$
exponential growth /ˌekspəˈnenʃl grəʊθ/	A population that doubles every year shows **exponential growth**.
exponential decay /ˌekspəˈnenʃl dɪˈkeɪ/	The charge falls by **exponential decay**.
natural logarithm /ˈnætʃərəl ˈlɒgərɪθəm/	The **natural logarithm** ln x uses base e. ln x e
half-life /hɑːf laɪf/	After one **half-life**, half the nuclei have decayed.

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