Lower 6 Chapter 14

Exponentials and logarithms

Chapter Overview

1. Sketch exponential graphs.
2. Use and interpret models that use exponential functions.
3. Be able to differentiate $e^{kx}$.
4. Understand the log function and use laws of logs.
5. Use logarithms to estimate values of constants in non-linear models.



**Contrasting exponential graphs**

On the same axes sketch $y=3^{x}, y=2^{x}$, $y=1.5^{x}$

On the same axes sketch $y=2^{x}$ and $y=\left(\frac{1}{2}\right)^{x}$

Graph Transformations

Sketch $y=2^{x+3}$

Exercise 14A Pg 313-314

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