Keep Learning

grade 100%

Logarithms

TOTAL POINTS 6

1. Introduction and Learning Outcomes

1/1 point

The goal of this assignment is to practice with logarithms that appear frequently in the analysis of algorithms.

Recall that $\log_a n$ is the power to which you need to raise a in order to obtain n.

The main rules for working with logarithms are the following:

1.
$$\log_a(n^k) = k \log_a n$$

2.
$$\log_a(nm) = \log_a n + \log_a m$$

3.
$$n^{\log_a b} = b^{\log_a n}$$

4.
$$\log_a n \cdot \log_b a = \log_b n$$



