

Homework 2

FYS 129: Mathematics and Finances

No calculators allowed unless mentioned otherwise.

1) Compute:

- (a) $\log_3(27)$
- (b) $\log_2(1/8)$
- (c) $\log_4(32)$
- (d) $\log_2(1)$

2) If $2^x = 3$, use your calculator [it is OK in this problem] to find an approximation of x .

3) If $\log_{27}(a) = 2$, then what is $\log_3(a)$?

4) If $\log_a(x) = 2$ and $\log_a(y) = 3$, then compute:

- (a) $\log_a(x \cdot y)$
- (b) $\log_a(\sqrt{x})$
- (c) $\log_a(1/y)$