

Delete these examples once you look over the commands and my comments in the .tex file.

Italic text

Bold text

$$c = \pi * r^2$$

$$(a \wedge b) \vee (\neg c \wedge d)$$

$4 + 5 = 9$

p	q	$p \implies q$
T	T	T
T	F	F
F	T	T
F	F	T

Table 1: The truth table for an implication.

Section 1.2

1.n

$$T(n) = 4T(n/4) + n$$

There will be k levels of recursion where $k = \log_4(n)$. The amount of work done at each level k is summed. There is $T(1) * n$ work done by the bottom level.

$$\sum_{i=1}^k 4^{i-1} * \frac{n}{4^{i-1}} + T(1) * n$$

$$\sum_{i=1}^k n + T(1) * n$$

$$k * n + T(1) * n$$

$$\log_4(n) * n + c * n$$

$O(n \log n)$

4.d

5.d

29.a

29.b

29.c

Section 1.3
