Jonathan Koning

[koningj@oregonstate.edu](mailto:koningj@oregonstate.edu)

CS 514

HW1

2)

2. a) Derivation of the running time assuming that multiplications and additions take constant time

T(n) =

T(n) =

T(n) =

O(n) =

2. b) Derivation of the running time assuming multiplication and division of n-bit numbers take O(n^2) time and additions and subtractions take O(n) time