4)
$$T(N) = 2N^2 - 4N + 10$$
 $O(N) = O(N^2)$

Highest order is N^2

b) $T(N) = J3N^3 + 1/N = 3N^{3/2} [(N) = O(N^3)]$

C) $T(N) = \frac{N^2 log N}{3N + 1} = \frac{N^2}{3N + 1} + \frac{log N}{3N + 1}$

With pirtri frections this so $N = \frac{N^2}{3N + 1}$

Presumably this second Part evaluates to to (syn, aproximately resulting in O(n) being similar to O(tologn)