6i, T(n): T(n/2) + log(n) a=1 b=2 c=1 leg 1: Oct + c is greater than logo regularity of for some constan OLLLI Follows from 3rd case of Master Theorem!

\$ = \text{Of(n)} = \log(n)\$ 611. T(n)=87(D)+402 follows from 1st case of Master Theorem: $T(n) \in \mathfrak{D}(n^{109}b^{9}) = \mathfrak{G} = n^{3}$ 6:11. $T(n) = n^2 + 7 T(n) + T(\frac{3}{4n})$ $T(n) = n^2 + 7$ $T(\frac{n}{2})$ as n gets large, this term converges to zero The state of the s a=7/4 b=2 1=2 log, (7/4) = . 407355 which is loss than c f(r/b) = (f(n) for some constant c Follows from 3rd case of master theorem:

\$ = \text{0} f(n) = n^2