

Quiz September 19

Question 1

Apply the MT to $T(n) = 3T(2n) + n$.

- (a) Then we compare $n^{\log_2(3)}$ with n .
- (b) Then we compare $n^{\log_3(2)}$ with n .
- (c) Then we compare $n^{3/2}$ with n .
- (d) MT does not apply as $b = 1/2$

Question 2

Apply the MT to $T(n) = 3T(n/2) + n$.

- (a) Then we compare $n^{\log_2(3)}$ with n .
- (b) Then we compare $n^{\log_3(2)}$ with n .
- (c) Then we compare $n^{3/2}$ with n .
- (d) MT does not apply as $b = 1/2$