**Question 1: T (n) = 3T (n/2) +n**

(n) = Θ(n lg 3 )

Yes

**Question 2: T (n) = 64T (n/8) − n^2(log n)**

Does not apply (f(n) is not positive)

**Question 3: T (n) = 2nT (n/2) + n^n**

Does not apply (a is not constant)

**Question 4: T (n) = 3T (n/3) + n/2**

Θ(n log n)

Yes

**Question: 5 .T (n) = 7T (n/3) + n^2**

Θ(n 2 )

yes