a) T (n) = 3T (n/2) + n

**solution:**

T(n) = Θ (n log 2 3)

b) T (n) = 64T (n/8) – n2(log n)

**solution:**

NA, as f(n) is negative

c) T (n) = 2nT (n/2) + n2

**solution:**

NA, as ‘a’ is not constant.

d) T (n) = 3T (n/3) + n/2

**solution:**

T(n) = Θ (n log n)

e) T (n) = 7T (n/3) + n2

**solution:**

T(n) = Θ (n2)