**PART 1: Solution**

1. T (n) = 3T (n/2) + n

**Answer:**

***T(n) =***

1. T (n) = 64T (n/8) − n^2(log n)

**Answer: NA**

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

**Answer: NA**

1. T (n) = 3T (n/3) + n/2

**Answer*:***

***T(n) =***

e) T (n) = 7T (n/3) + n^2

**Answer:**

***T(n) =***