3.3)2, log(base 3)n, logn, sqrt(n), n^2/3, 20n, 4n^2, 3^n, n!

3.12) a. Constant time

b. n

c. n^2

d. 3(n-1)+n+(n-1)= 3n-3+n+n-1=5n-4 for inside loop

(n-1)+n+(n-1)= 3n-2 for outside loop

(3n-2)(5n-4)= [15n^2-22n+8] mathematical evaluation for algorithm

e. n(n

f. nlogn

g. n^2logn

h. n^2

i. n