(a) When the input size is doubled, the algorithms get slower by

(i) a factor of 4.

(ii) a factor of 8.

(iii) a factor of 4.

(iv) a factor of 2, plus an additive $2n$.

(v) the square of the previous running time.

(b) When the input size is increased by an additive one, the algorithms get slower by

(i) an additive $2n + 1$.

(ii) an additive $3n^2 + 3n + 1$.

(iii) an additive $200n + 100$.

(iv) an additive $\log(n + 1) + n[\log(n + 1) - \log n]$.

(v) a factor of 2.

[1] ex561.359.766