Problem 1:

1. 2^10
2. 4n
3. 3n + 100logn
4. nlogn
5. 4nlogn + 2n
6. n^2 +10n
7. n^3
8. 2^logn
9. 2^n

Problem 2:

1. n^7
2. n^d

Problem 3: