(a)

```
public int calcSum1(int n) {
    int sum = 0;
    for (int i = 1; i < n; i *= 2) {
        sum++;
    }
    return sum;
}
```

(b)

```
public int calcSum2(int n) {
    int sum = 0;
    for (int i = 1; i < n; i++) {
        for (int j = 1; j < n/i; j++) {
            sum++;
        }
    }
    return sum;
}
```

P.S: Questions b and d are challenging. You could just do it for fun.

```
public int calcSum3(int n) {
        int sum = 0;
        for (int i = n; i > 1; i--) {
                for (int j = i; j > 1; j=j/3) {
                        sum++;
                }
        }
        return sum;
}
```

(d)
```
public int calcSum4(int n) {
        int sum = 0;
        for (int i = 0; i < n; i++) {
                for (int j = 1; j < i*i; j++) {
                        if(j % i == 0) {
                                for(int k = 0; k < j; k++) {
                                        sum++;
                                }
                        }
                }
        }
        return sum;
}
```

Answer: 1. O(log(n))
2. O(n log(n))
3.O(n log(n))
4. O(n^4)