1. Given the function definition

```c
void Twist(int a, int& b)
{
    int c;

    c = a + 2;
    a = a * 3;
    b = c + a;
}
```

what is the output of the following code fragment that invokes `Twist`? (assume that all variables are of type `int`). Justify your answer.

```c
r = 1;
s = 2;
t = 3;
Twist(t, s);
cout << r << ' ' << s << ' ' << t << endl;
```

2. (a) When passing a static 2D array to a function, the number of columns must be specified in the function prototype and function heading. Carefully explain why. (b) Give the C++ statements for the dynamic allocation of an array A with 3 rows and 5 columns. Draw a diagram that illustrates the structure of the dynamic array in memory. Carefully explain how the system would find the address of element A[i][j] using the pointer structure associated with the array.

3. Exercise 18 (page 188)

4. Exercise 19 (page 188)