I.

	Cost	# of Times
`sum = 0;`	C_1	1
`for (i = 0; i < n; i++)`	C_2	(n - 0 -1 +1)+1 = n+1
`sum++;`	C_3	n

$T(n) = C_1 + C_2(n+1) + C_3(n)$

II.

	Cost	# of Times
`sum = 0;`	C_1	1
`for (i = 0; i < n; i++)`	C_2	(n - 0 -1 +1)+1 = n+1
`for (j = 0; j < n; j++)`	C_3	$(n)(n + 1) = n^2 + n$
`sum++;`	C_4	n^2

$T(n) = C_1 + C_2(n + 1) + C_3(n^2 + n) + C_4(n^2)$

III.

	Cost	# of Times
`sum = 0;`	C_1	1
`for (i = 0; i < n; i++)`	C_2	(n - 0 -1 +1)+1 = n+1
`for (j = 0; j < n * n; j++)`	C_3	$(n)(n^2 + 1) = n^3 + n$

`sum++;`	C_4	n^3

$T(n) = C_1 + C_2(n + 1) + C_3(n^3 + n) + C_4(n^3)$

IV.

	Cost	# of Times
`sum = 0;`	C_1	1
`for (i = 0; i < n; i++)`	C_2	(n - 0 -1 +1)+1 = n+1
`for(j = 0; j < i; j++)`	C_3	1+2+...+(n+1) = n((n+1)/2)
`sum++;`	C_4	1+2+...+n = n(((n+1)/2) - 1)

$T(n) = C_1 + C_2(n + 1)+ C_3n((n+1) / 2) + C_4n(((n+1) / 2) - 1)$

V.

	Cost	# of Times
`sum = 0;`	C_1	1
`for (i = 0; i < n; i++)`	C_2	(n - 0 -1 +1)+1 = n+1
`for(j = 0; j < i * i; j++)`	C_3	$1^2+2^2+...+(n+1)^2 = (n((n+1)/2))^2$
`for(k = 0; k < j; k++)`	C_4	$(n)((n((n)/2))^2)(n+2)$
`sum++;`	C_5	$(n)((n((n)/2))^2)(n+1)$

$T(n) = C_1 + C_2(n + 1) + C_3(n((n+1)/2))^2 + C_4(n)((n((n)/2))^2)(n+2) + C_5(n)((n((n)/2))^2)(n+1)$

Question 3 part f:
The plots do not appear to correspond with my answers for part A for the most part. Plot 1 is linear, plot 2 appears to be quadratic, but afterwards they all begin to resemble each other, with the same quadratic-looking line. Graph 6 looks to similar to the previous graphs to call it anything but quadratic.