



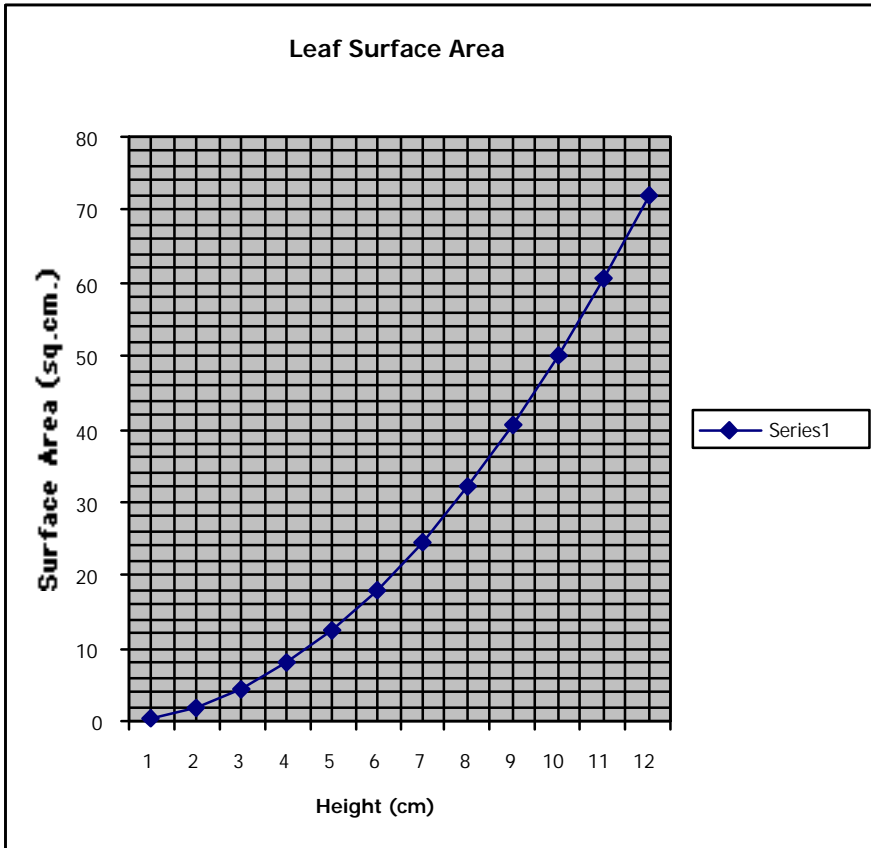
Activity III Quadratic Growth Solutions

1. The leaf covers about half of the square.
 - o In the kite shaped model, fold the white part of the figure onto the shaded part and it will cover it completely.
2. The formula is $A = 1/2 (h^2)$
 - o The length of the side of the square is h and area is h^2 and since the area of the leaf is half the square the area formula is $1/2 (h^2)$.
- 3.



4.

Height (in cm.)	1	2	3	4	5	6	7	8
Area (in cm^2)	0.5	2	4.5	8	12.5	18	24.5	32



5.

Height	Area from Graph	Area from Calculation
4.5	10.1	10.12
8.3	31	34.45
11	62	60.2