

3.3 notes

X	Y	1 <sup>st</sup> difference	2 <sup>nd</sup> difference
0	1		
1	4		
2	16		
3	64		
4	256		

X	Y	1 <sup>st</sup> difference	2 <sup>nd</sup> difference
0	64		
1	42		
2	30		
3	28		
4	36		

Constant/Linear/quadratic/exponential?

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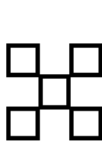
Explicit equation: \_\_\_\_\_

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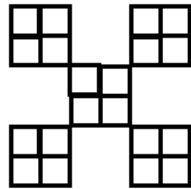
$f(42) =$  \_\_\_\_\_

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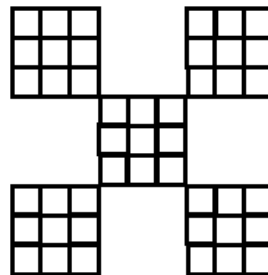
Create a table to represent the following picture. Then find the first and second difference, and write the explicit equation and solve for when  $x = 42$



Step 1



Step 2



Step 3

a.

X	Y	1 <sup>st</sup> difference	2 <sup>nd</sup> difference

B. Constant/Linear/quadratic/exponential?

c. Explicit equation: \_\_\_\_\_

d.  $f(42) =$  \_\_\_\_\_

3.3 notes

Create a table to represent the following picture. Then find the first and second difference, and write the explicit equation and solve for when  $x = 42$

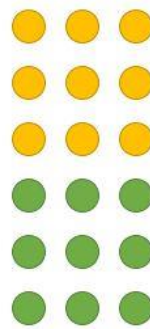
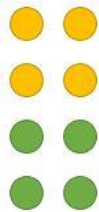


Fig. #	Number of Circles
10	
100	

Constant/Linear/quadratic/exponential?

Explicit equation: \_\_\_\_\_

$f(42) =$  \_\_\_\_\_

What happens when there is no zero term?

X	Y	1 <sup>st</sup> difference	2 <sup>nd</sup> difference
2	25		
3	30		
4	35		
5	40		
6	45		

Constant/Linear/quadratic/exponential?

Explicit equation: \_\_\_\_\_

$f(42) =$  \_\_\_\_\_

X	Y	1 <sup>st</sup> difference	2 <sup>nd</sup> difference
2	42		
3	64		
4	106		
5	168		
6	250		

Constant/Linear/quadratic/exponential?

Explicit equation: \_\_\_\_\_

$f(42) =$  \_\_\_\_\_