Review of Quadratic Sequences

| $n^{2}=$ | $1^{2}$ | $2^{2}$ | $3^{2}$ | $4^{2}$ | $5^{2}$ | $6^{2}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $n^{2}=$ | 1 | 4 | 9 | 16 | 25 | 36 |
| 1st <br> dift <br> 2nd | 3 |  | 5 | 7 |  | 9 |
| 11 |  |  |  |  |  |  |

dift
Find $n^{\text {th }}$ term formula
ExI
$\begin{array}{lllll}5 & 9 & 15 & 23 & 33\end{array}$

$$
\begin{aligned}
& 15 t \\
& \text { Dift } \\
& 2-n
\end{aligned}
$$

| $n^{2}$ | 1 | 4 | 9 | 16 | 25 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 4 | 5 | 6 | 7 | 8 |  |


| $+n$ | 1 | 2 | 3 | 4 | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| +3 | 3 | 3 | 3 | 3 | 3 |

$$
n^{\text {th }} \operatorname{ter} m=n^{2}+n+3
$$



