**Finite Difference**

* If the first differences are the same, then a sequence has a linear model
* If the second differences are the same, a sequence has a quadratic model

Ex. Use matrices to find the equation that models the sequence Assume *n* begins with 1.

Ex. Use matrices to find the equation that models the sequence Assume *n* begins with 1.

Ex. Use matrices to find the equation that models the sequence Assume *n* begins with 1.

Ex. Use matrices to find the equation that models the sequence Assume *n* begins with 1.