The rth term of a Quadratic Sequence

Summary of the Generating Formulae for the rth term of a Quadratic Sequence

<u>Form 1</u> The general term T_r of the general quadratic sequence given in terms of the first term P, the gap D between the first two terms and the constant number g in the second row of differences is;

$$T_{r} = (g)r^{2} + (D - \underline{3}g)r + P - D + g$$
2
2
2

Form 2 The general term T_r of the general quadratic sequence expressed using the first three terms P, Q and R is:

$$T_{r} = \frac{1}{2} (P - 2Q + R) r^{2} + \frac{1}{2} (-5P + 8Q - 3R) r + 3P - 3Q + R$$