

5. Use polynomial fitting to find a formula for the n th term of the sequence $(a_n)_{n \geq 0}$:

$$2, 11, 24, 41, 62, \dots$$

6. Use polynomial fitting to *write the equations you would need* to find a formula for the n th term of the sequence $(a_n)_{n \geq 0}$:

$$1, 2, 6, 16, 35, 66, \dots$$

EXTRA CREDIT: Find a formula for the sequence given in (6).