HAA1.6

1) Find the nth term of the quadratic
   sequence 6, 22, 48, 84, …

2) Sketch the curve $y = x^3$

3) Find the equation of the line with gradient $-\frac{1}{2}$ passing through
   the point (3 , 5)

4) Work out $3.5 \times 10^4 + 5 \times 10^3$

5) Express $x^2 - 12x - 30$ in completed square form