

Arithmetic sequences:

sequences going up in even steps

- a - first number of a sequence
- d - the difference between terms
- n - last number of a sequence
- u_n - the n^{th} term
- S_n - the sum of n terms

$$u_1 = a$$

$$u_2 = a + d$$

$$u_3 = a + 2d$$

$$u_4 = a + 3d$$

$$u_n = a + (n-1)d$$

NO of terms: $1 \leq n \leq (a+nd)/d$
(where all but n is given)

$$S_n = a + (a+d) + (a+2d) + \dots + (a+(n-1)d)$$

$$= a + (a+d) + (a+2d) + \dots + (a+(n-1)d)$$

$$2S_n = (2a + (n-1)d) + (2a + (n-1)d) + \dots + (2a + (n-1)d)$$

$$2S_n = n(2a + (n-1)d)$$

$$S_n = \frac{n}{2}(2a + (n-1)d)$$

$$S_n = \frac{n}{2}n(a + l)$$

$$\sum_{i=1}^n a_i = a_1 + a_2 + \dots + a_n$$

terms of a sequence
added together
not resulting sum
= totals

"Terms" or "steps" → work out as if numbers
"early" or "late" → just use the number given

Differentiation

$\frac{dy}{dx}$ or $f'(x)$ is the rate of change of y
with respect to x ,
the gradient of a graph given
in terms of x and y ,
first derivative of y with respect to x ,
 y differentiated

There is also the rate of change of the rate of change

$$\frac{d}{dx} \left(\frac{dy}{dx} \right)$$

$$\frac{d^2y}{dx^2} = f''(x)$$

$$\frac{d^3y}{dx^3} = f'''(x)$$

$$\frac{d^4y}{dx^4} = f^{(4)}(x)$$

$$\frac{d^5y}{dx^5} = f^{(5)}(x)$$

$$\frac{d^6y}{dx^6} = f^{(6)}(x)$$

$$\text{if } y = ax^n$$

$$\text{then } \frac{dy}{dx} = a \cdot n \cdot x^{n-1}$$

constants "disappear" on differentiation

Tangents are straight lines with the same
gradient as the curve at a specific point

Normal to expressions in terms of powers of x first

the normal is perpendicular to the tangent ($\frac{1}{m}$) and
intersects with the tangent and curve at the given point

$$y - y_1 = m(x - x_1)$$

→ for all straight lines

Integration: Differentiation backwards

$$\text{if } y = ax^n$$

$$\text{then } \int y \, dx = \frac{ax^{n+1}}{n+1} + C$$

(given a derivative, we can work out the function,
including the arbitrary constant by substituting in
the values at a given point)

Quadratic sequences

equation $ax^2 + bx + c$

for $n = 1, 2, 3 \dots$ for last n

d is given as the smallest value of
 n for which this is true

Calculating after question (or)

alternating above/below a
middle number

if $1 \leq n$

Graphs etc.

quadratic inequalities

$ax^2 + bx + c > 0$ → other side of solution

$ax^2 + bx + c < 0$ → between solutions

$ax^2 + bx + c = 0$ → other way round

quadratic:



ratio:



$y = a f(x) \rightarrow$ multiply y coordinate by a

$y = f(ax) \rightarrow$ compress x by a

$y = f(x+a) \rightarrow$ move left by a

$y = f(x) + a \rightarrow$ shift y coordinate by a

Remember to change d if points

The discriminant:

$$ax^2 + bx + c = 0$$

when $b^2 - 4ac > 0$ there are two solutions/roots

$b^2 - 4ac = 0$ two equal solutions/one root

$b^2 - 4ac < 0$ no real solutions

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