

## 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  $n^{\text{th}}$  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)

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

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

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

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

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

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

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

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

terms of a sequence added together in matching pairs = totals

if so

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

"terms" or "steps" - work out as if numbers  
"units" or "steps" - 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.

$$\frac{d}{dx} \left( \frac{dy}{dx} \right) = \frac{d^2y}{dx^2}$$

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

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

constants "disappear" on differentiation

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

convert 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  $u_n = an^2 + bn + c$

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

$\Delta_1$  - second is the smallest value of  $a$  for which this is true

collecting (often possible too)

alternating above/below a middle number

if  $\Delta_1 \neq 0$

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  $dx$  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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**Khalid Safir**



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