

Arithmetic sequences:

sequences going up in even steps

- a - first number of a sequence
- d - the difference between terms
- 1 - first 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 to $a + (n-1)d$
(where all but n is given)

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

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

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

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

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

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

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

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

terms of a sequence added together in a matching way = totals

if so

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

"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.

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

$$\frac{d^2y}{dx^2}$$

$$\frac{d^3y}{dx^3}$$

$$\frac{d^4y}{dx^4}$$

$$\frac{d^5y}{dx^5}$$

$$\frac{d^6y}{dx^6}$$

$$\frac{d^7y}{dx^7}$$

$$\frac{d^8y}{dx^8}$$

$$\frac{d^9y}{dx^9}$$

$$\frac{d^{10}y}{dx^{10}}$$

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

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

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 $u_n = an^2 + bn + c$

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

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

collecting (often possible too)
alternating above/below a middle number
if 1st

Graphs etc.

quadratic inequalities
if $a > 0 \rightarrow$ other side of solution
if $a < 0 \rightarrow$ between solutions
if $a = 0$ other way round

quadratic:

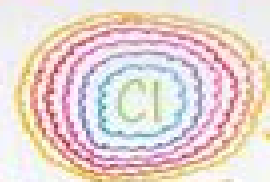


ratio:



$y = a(x-h)^2 + k$ - vertex form
 $y = a(x-h)^2 + k$ - vertex form
 $y = a(x-h)^2 + k$ - vertex form
 $y = a(x-h)^2 + k$ - vertex form
 $y = a(x-h)^2 + k$ - vertex form

Remember to change diff points



Don't forget to subtract the number given

STATE what it is given find the solution for

Don't divide by yourself
you'll lose a solution!

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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