

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

$$u_1 = a$$

$$u_2 = a + d$$

$$u_3 = a + 2d$$

$$u_4 = a + 3d$$

$$\dots$$

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

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 a matching way = 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

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

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

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

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

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

$$\frac{d^7y}{dx^7} = f^{(7)}(x)$$

$$\frac{d^8y}{dx^8} = f^{(8)}(x)$$

$$\frac{d^9y}{dx^9} = f^{(9)}(x)$$

$$\frac{d^{10}y}{dx^{10}} = f^{(10)}(x)$$

$$\frac{d^{11}y}{dx^{11}} = f^{(11)}(x)$$

$$\frac{d^{12}y}{dx^{12}} = f^{(12)}(x)$$

$$\frac{d^{13}y}{dx^{13}} = f^{(13)}(x)$$

$$\frac{d^{14}y}{dx^{14}} = f^{(14)}(x)$$

$$\frac{d^{15}y}{dx^{15}} = f^{(15)}(x)$$

$$\frac{d^{16}y}{dx^{16}} = f^{(16)}(x)$$

$$\frac{d^{17}y}{dx^{17}} = f^{(17)}(x)$$

$$\frac{d^{18}y}{dx^{18}} = f^{(18)}(x)$$

$$\frac{d^{19}y}{dx^{19}} = f^{(19)}(x)$$

$$\frac{d^{20}y}{dx^{20}} = f^{(20)}(x)$$

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

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

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

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

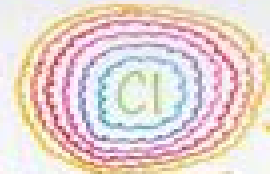
for all straight lines

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)



STATE what it is given find the solution for

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

Quadratic sequences

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

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

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

collecting after question (or) alternating above/below a middle number
if 1st

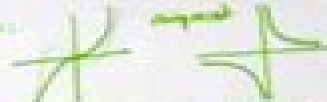
Graphs etc.

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

quadratic:



ratio:



$y = a(x+b) \rightarrow$ multiply quadratics by a
 $y = f(x)g(x) \rightarrow$ multiply $f(x)$ by $g(x)$
 $y = f(x)g(x) \rightarrow$ multiply $f(x)$ by $g(x)$
 $y = f(x)g(x) \rightarrow$ multiply $f(x)$ by $g(x)$
 $y = f(x)g(x) \rightarrow$ multiply $f(x)$ by $g(x)$
Remember to change diff 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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