

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

$$u_1 = a$$

$$u_2 = a + d$$

$$u_3 = a + 2d$$

$$u_4 = a + 3d$$

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

All of terms: $1, a + (n-1)d$
(where all but n is given)

$$S_2 = a + (a+d) = 2a + d$$

$$S_3 = a + (a+d) + (a+2d) = 3a + 3d$$

$$S_4 = a + (a+d) + (a+2d) + (a+3d) = 4a + 6d$$

$$2S_2 = (2a + (n-1)d) + (2a + (n-1)d) = (2a + (n-1)d) \cdot 2$$

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

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

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

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

terms of a sequence added together
not resulting in a
= result

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

If $y = ax^n$
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.

It's common to expressions in terms of powers of x first & the normal is perpendicular to the tangent (\perp) and intersects with the tangent and curve at the given point.

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

→ for straight lines

Integration: Differentiation backwards

If $y = ax^n$
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)

"Have" or "show" → work out as if unknown
"verify" or "check" → just use the number given



Just keep
to subtract
linear points

STATE what it is given find the solution for

variables

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

Quadratic sequences

eg when $n=1, 2, 3$

$1^2 = 1, 2^2 = 4, 3^2 = 9$

1st point is the smallest value of n for which this is true

Calculating often possible by alternating above/below a middle number

eg 1, 4, 9

Graphs etc.

quadratic inequalities

$x < 0$ → other side of solution

$x = 0$ → between solutions

$x > 0$ → other way round

quadratics:



roots:



$y = a(x-h)^2 + k$ → vertex form

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 opt. root

$$b^2 - 4ac < 0$$

no real solutions

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K Payea



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