

Arithmetic sequences:

sequences going up in even steps

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

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

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

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

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

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

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

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

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

terms of a sequence
added together
to get resulting sum
= totals

if so

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.

$$\frac{d}{dx} f'(x)$$

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

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

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

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

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

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

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

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

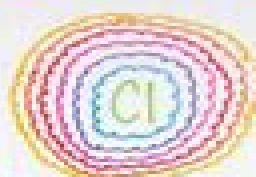
Integration: Differentiation backwards

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

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

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

"Rough" or "sketch" → work out as if numbers
"exactly" or "check" → just use the numbers given



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.

Δ_1 point is the smallest value of y for which there is a line

collecting (often possible too)

alternating above/below a middle number

if 1/2

Graphs etc.

quadratic inequalities

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

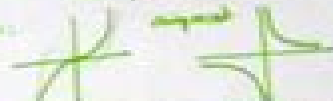
$ax^2 + b < 0$ → between solutions

→ see other way around

quadratic:



ratio:



$y = a f(x)$ → multiply graphically by a

$y = f(ax)$ → compress graph by a

$y = f(x+a)$ → move LEFT by a

$y = f(x)$ → check for continuity by

Remember to change diff points

The discriminant:

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

$$\text{when } b^2 - 4ac > 0$$

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

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

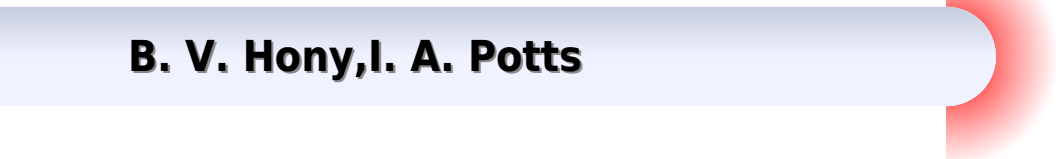
there are two solutions/roots

two equal solutions/one opt. root

no real solutions

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