

Pure Y2 Summary

along with the original equation to find x and y values.

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Integration using Partial Fractions

$$\int \frac{x-1}{(x+1)(x-2)^2} dx = \int \frac{-2}{9(x+1)} + \frac{2}{9(x-2)} + \frac{1}{3(x-2)^2} dx$$

$$= -\frac{2}{9} \ln|x+1| + \frac{2}{9} \ln|x-2| - \frac{1}{3(x-2)} + c$$

$$= \frac{2}{9} \ln \left| \frac{x-2}{x+1} \right| - \frac{1}{3(x-2)} + c$$

Area between curve and x-axis

Area between curve and y-axis

Area between 2 curves

Top function - bottom function

$$\text{Area} = \int_a^b (f(x) - g(x)) dx$$

Numerical Methods

- Change of Sign:** To show that a root of an equation $f(x) = 0$ lies in the interval $[a, b]$. Show that there is a change of sign between $f(a)$ and $f(b)$.
- Fixed Point Iteration:** Rearrange $f(x) = 0$ into $x = g(x)$ to give the iteration $x_{n+1} = g(x_n)$. From a starting value of x_0 (or x_1), use the iteration to get closer approximations to the root. The iteration will converge to a root α if $|g'(\alpha)| < 1$ ($-1 < g'(\alpha) < 1$) and x_0 is sufficiently close to α .

Graphically:

The iteration converges or diverges in a staircase or cobweb fashion

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

- Newton Raphson:** this uses the iteration:

Graphically, this method uses tangents to the curve - next iterations is where the tangent crosses the x-axis. Problems - if the gradient of the curve is too steep where it crosses the x-axis or if the iteration finds a turning point.

The Trapezium Rule

The area between the curve $y = f(x)$, the x-axis and the lines $x = a$ and $x = b$ can be approximated using the trapezium rule:

$$\int_a^b y dx \approx \frac{1}{2} h [(y_0 + y_n) + 2(y_1 + y_2 + \dots + y_{n-1})]$$

where n is the number of divisions, each of width $h = \frac{b-a}{n}$.

Partial Fractions

$$(1) \frac{x+3}{(x-2)(x+4)} = \frac{A}{x-2} + \frac{B}{x+4}$$

$$(2) \frac{x-1}{(x+1)(x-2)^2} = \frac{A}{x+1} + \frac{B}{x-2} + \frac{C}{(x-2)^2}$$

General Binomial Expansion

$$(1+x)^n = 1 + nx + \frac{n(n-1)}{2!} x^2 + \frac{n(n-1)(n-2)}{3!} x^3 + \dots$$

provided $|x| < 1$.

$$\text{e.g. } (2+x)^{-3} = (2+x)^{-3} = \left[2 \left(1 + \frac{x}{2} \right) \right]^{-3} = 2^{-3} \left(1 + \frac{x}{2} \right)^{-3}$$

$$= \frac{1}{8} \left\{ 1 + (-3) \left(\frac{x}{2} \right) + \frac{(-3)(-4)}{2!} \left(\frac{x}{2} \right)^2 + \dots \right\} = \frac{1}{8} - \frac{3x}{16} + \frac{3x^2}{16} \quad (1^{st} \text{ 3 terms})$$

Valid for $\left| \frac{x}{2} \right| < 1 \Rightarrow |x| < 2$ or $-2 < x < 2$

Sequences and Series

A **sequence** is a set of numbers in a given order, each number is called a **term**. When the terms of a sequence are added together, the resulting sum is called a **series**.

A sequence which repeats itself at regular intervals is called **periodic**. In an **oscillating** sequence the terms lie above and below a middle number.

1. Arithmetic Progressions

Each term may be obtained from the previous term by adding the **common difference** d . The first term is called a .

e.g. 1, 3, 5, 7, ... $a = 1, d = 2$

or 7, 3, -1, -5, -9, ... $a = 7, d = -4$

In an A.P.: 1st term a , 2nd term $a + d$,

$$k^{th} \text{ term is } a + (k-1)d$$

If S_n is the sum of the first n terms and l is the last term.

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

2. Geometric Progressions

The ratio of a term to the previous one is a constant, called the **common ratio** r .

3, 6, 12, 24, 48, ... $a = 3, r = 2$

1st term: a ; 2nd term: ar ; 3rd term: ar^2

$$k^{th} \text{ term is } ar^{k-1}$$

If S_n is the sum of the first n terms

$$S_n = \frac{a(1-r^n)}{1-r}$$

$$S_n = \frac{a(r^n-1)}{r-1}$$

for $-1 < r < 1$

If $|r| < 1$ then the terms of a G.P. get progressively smaller (i.e. $r \rightarrow 0$ as $n \rightarrow \infty$) and the series **converges**. The sum is

$$S_\infty = \frac{a}{1-r}$$

e.g. in $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots$, $a = 1, r = \frac{1}{2}$.

$$S_\infty = \frac{a}{1-r} = \frac{1}{1-\frac{1}{2}} = \frac{1}{\frac{1}{2}} = 2$$

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Radians: $180^\circ = \pi$ radians

To convert from degrees to radians, multiply by $\frac{\pi}{180}$.

To convert from radians to degrees, multiply by $\frac{180}{\pi}$.



$$\text{Length of arc} = r\theta$$

$$\text{Area of sector} = \frac{1}{2} r^2 \theta$$

Parametric Equations

$y^2 = x$ (one to many) can be represented as: $y = t^2 \rightarrow x = y^2$

each **one** parameter value of t gives **one** coordinate value.

$$\frac{dy}{dx} = \frac{\frac{dy}{dt}}{\frac{dx}{dt}}$$

$$\frac{dy}{dx} = \frac{\frac{dy}{d\theta}}{\frac{dx}{d\theta}}$$

Parametric Differentiation.

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