



Mathematics: Analysis & Approaches SL & HL

1 Page Formula Sheet – First Examinations 2021 – Updated Version 1.3

Prior Learning SL & HL

Area: Parallelogram	$A = bh$, b = base, h = height
Area: Triangle	$A = \frac{1}{2}bh$, b = base, h = height
Area: Trapezoid	$A = \frac{1}{2}(a+b)h$, a, b = parallel sides, h = height
Area: Circle	$A = \pi r^2$, r = radius
Circumference: Circle	$C = 2\pi r$, r = radius
Volume: Cuboid	$V = lwh$, l = length, w = width, h = height
Volume: Cylinder	$V = \pi r^2 h$, r = radius, h = height
Volume: Prism	$V = Ah$, A = cross-section area, h = height
Area: Cylinder curve	$A = 2\pi rh$, r = radius, h = height
Distance between two points (x_1, y_1) , (x_2, y_2)	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Coordinates of midpoint	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$, for endpoints (x_1, y_1) , (x_2, y_2)

Topic 1: Number and algebra – SL & HL

The n th term of an arithmetic sequence	$u_n = u_1 + (n-1)d$
Sum of n terms of an arithmetic sequence	$S_n = \frac{n}{2}(2u_1 + (n-1)d) = \frac{n}{2}(u_1 + u_n)$
The n th term of a geometric sequence	$u_n = u_1 r^{n-1}$
Sum of n terms of a finite geometric seq.	$S_n = \frac{u_1(r^n - 1)}{r - 1} = \frac{u_1(1 - r^n)}{1 - r}$, $r \neq 1$
Compound interest	$PI = \left(1 + \frac{r}{100}\right)^n$ PI is future value, PI is present value, r is the number of comp. in the number of corresponding periods per year, n is the nominal annual rate of interest
Exponents & logarithms	$a^x = b$ iff $x = \log_a b$, $a, b > 0$, $a \neq 1$ $\log_a x^y = y \log_a x$ $\log_a x = \log_{a^k} x^k$, $k \neq 0$
Exponents & logarithms	$\log_a a^x = x$ iff $x = \log_a a$ $\log_a x = \frac{\log_b x}{\log_b a}$
The sum of an infinite geometric sequence	$S_\infty = \frac{u_1}{1-r}$, $ r < 1$
Binomial Theorem	For $n \in \mathbb{N}$, $(a+b)^n = \sum_{k=0}^n \binom{n}{k} a^{n-k} b^k$
Binomial coefficient	$\binom{n}{k} = \frac{n!}{k!(n-k)!}$

Topic 2: Number and algebra – HL only

Combinations	${}^n C_r = \frac{n!}{r!(n-r)!}$
Permutations	${}^n P_r = \frac{n!}{(n-r)!}$
Extension of Binomial Theorem, $ x < 1$	$(1+x)^a = 1 + \binom{a}{1}x + \frac{\binom{a}{2}}{2!}x^2 + \dots$
Complex numbers	$z = a + bi$
Modulus argument (polar) & Exponential (Euler) form	$z = r(\cos \theta + i \sin \theta) = re^{i\theta}$
De Moivre's Theorem	$(r(\cos \theta + i \sin \theta))^n = r^n(\cos n\theta + i \sin n\theta)$

Topic 3: Functions – SL & HL

Equations of a straight line	$y = mx + c$, m = gradient, c = y -intercept $y - y_1 = m(x - x_1)$
Gradient formula	$m = \frac{y_2 - y_1}{x_2 - x_1}$
Axis of symmetry of a quadratic function	$f(x) = ax^2 + bx + c$, $a \neq 0$, $x = -\frac{b}{2a}$
Solutions of a quadratic equation in the form $ax^2 + bx + c = 0$	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$, $a \neq 0$
Discriminant	$\Delta = b^2 - 4ac$
Exponential and logarithmic functions	$a^x = e^{x \ln a}$, $a > 0$, $a \neq 1$ $\log_a x = \frac{\ln x}{\ln a}$, $x > 0$, $a > 0$, $a \neq 1$

Topic 4: Functions – HL only

Sum & product of the roots of polynomial equations of the form $a_n x^n + \dots + a_0 = 0$	$\sum_{i=1}^n x_i = -\frac{a_{n-1}}{a_n}$, product $= \frac{(-1)^n a_0}{a_n}$
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Topic 3: Geometry and trigonometry – SL & HL

Distance between 2 points (x_1, y_1, z_1) , (x_2, y_2, z_2)	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$
Coordinates of midpoint of a line with endpoints (x_1, y_1, z_1) , (x_2, y_2, z_2)	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}, \frac{z_1 + z_2}{2}\right)$
Volume: Right-angled pyramid	$V = \frac{1}{3}Ah$, A = base area, h = height
Volume: Right cone	$V = \frac{1}{3}\pi r^2 h$, r = radius, h = height
Area: Circle sector	$A = \frac{\theta}{360} \pi r^2$, r = radius, θ = central angle
Volume: Sphere	$V = \frac{4}{3}\pi r^3$, r = radius
Surface area: Sphere	$A = 4\pi r^2$, r = radius
Sine rule	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$ $a^2 = b^2 + c^2 - 2bc \cos A$ $\cos C = \frac{a^2 + b^2 - c^2}{2ab}$
Cosine rule	$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$
Area: Triangle	$A = \frac{1}{2}ab \sin C$
Length of an arc	$l = r\theta$, r = radius, θ = angle in radians
Area of a sector	$A = \frac{1}{2}r^2 \theta$, r = radius, θ = angle in radians
Identity for tan θ	$\tan \theta = \frac{\sin \theta}{\cos \theta}$
Pythagorean identity	$\cos^2 \theta + \sin^2 \theta = 1$ $\sin 2\theta = 2 \sin \theta \cos \theta$ $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$
Double angle identities	$\sin 2\theta = \frac{2 \tan \theta}{1 + \tan^2 \theta}$

Topic 3: Geometry and trigonometry – HL only

Reciprocal trigonometric identities	$\sec \theta = \frac{1}{\cos \theta}$, $\csc \theta = \frac{1}{\sin \theta}$
Pythagorean identities	$1 + \tan^2 \theta = \sec^2 \theta$, $1 + \cot^2 \theta = \csc^2 \theta$
Compound angle identities	$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$ $\sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$ $\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$
Double angle identity for tan	$\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$
Magnitude of a vector	$ a = \sqrt{a_x^2 + a_y^2 + a_z^2}$
Scalar product	$a \cdot b = a b \cos \theta$ $a \cdot b = a_x b_x + a_y b_y + a_z b_z$ where θ is the angle between a and b
Angle between two vectors	$\cos \theta = \frac{a \cdot b}{ a b }$
Vector eqn. of a line	$r = a + \lambda b$
Parametric form of the equation of a line	$x = x_0 + \lambda l$, $y = y_0 + \lambda m$, $z = z_0 + \lambda n$
Cartesian equations of a line	$\frac{x - x_0}{l} = \frac{y - y_0}{m} = \frac{z - z_0}{n}$
Vector product	$a \times b = \begin{vmatrix} a_x & a_y & a_z \\ b_x & b_y & b_z \end{vmatrix}$ $ a \times b = a b \sin \theta$ where θ is the angle between a and b
Area of a parallelogram	$A = a \times b $, where a and b form two adjacent sides of a parallelogram
Vector eqn. of a plane	$r \cdot n = a$, n = normal vector
Equation of a plane	$x - x_0 = l(x - x_0) + m(y - y_0) + n(z - z_0)$
Cartesian eqn. of a plane	$lx + my + nz = d$

Topic 4: Statistics and probability – SL & HL

Interquartile range	$Q3 - Q1 = IQR$
Mean, $\bar{x}$, of a set of data	$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$
Probability of an event A	$P(A) = \frac{n(A)}{n(S)}$
Complementary events	$P(\bar{A}) = 1 - P(A)$
Combined events	$P(A \cup B) = P(A) + P(B) - P(A \cap B)$
Mutually exclusive events	$P(A \cup B) = P(A) + P(B)$
Conditional probability	$P(A B) = \frac{P(A \cap B)}{P(B)}$
Independent events	$P(A \cap B) = P(A)P(B)$
Expected value: Discrete random variable X	$EX = \sum x_i P(X = x_i)$
Binomial distribution	$X \sim B(n, p)$
Mean, μ , Variance, σ^2	$EX = np$, $Var(X) = np(1-p)$
Standardized normal variable	$z = \frac{x - \mu}{\sigma}$

Topic 4: Statistics and probability – HL only

Bayes' Theorem	$P(A B) = \frac{P(B A)P(A)}{P(B)}$ $P(B A) = \frac{P(A \cap B)}{P(A)}$ $P(A \cap B) = P(A)P(B A) = P(B)P(A B)$
Variance x^2	$\sigma^2 = \frac{\sum_{i=1}^n x_i^2}{n} - \left(\frac{\sum_{i=1}^n x_i}{n}\right)^2 = \mu^2 - \bar{x}^2$
Standard Deviation σ	$\sigma = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n}}$
Linear transformation of a single random variable	$E(aX + b) = aE(X) + b$ $Var(aX + b) = a^2 Var(X)$
Expected value: Continuous random variable X	$EX = \mu = \int_{-\infty}^{\infty} x f(x) dx$
Variance	$Var(X) = E(X^2) - \mu^2 = E(X^2) - (EX)^2$
Variance of a discrete random variable X	$Var(X) = \sum x_i^2 P(X = x_i) - (\sum x_i P(X = x_i))^2$
Variance of a continuous random variable X	$Var(X) = \int_{-\infty}^{\infty} x^2 f(x) dx - \mu^2$

Topic 5: Calculus – SL & HL

Derivative of x^n	$f(x) = x^n \Rightarrow f'(x) = nx^{n-1}$
Integral of x^n	$\int x^n dx = \frac{x^{n+1}}{n+1} + C$, $n \neq -1$
Area between curve $y = f(x)$ & x -axis	$A = \int_a^b f(x) dx$, where $f(x) \geq 0$
Derivative of $\sin x$	$f(x) = \sin x \Rightarrow f'(x) = \cos x$
Derivative of $\cos x$	$f(x) = \cos x \Rightarrow f'(x) = -\sin x$
Derivative of e^x	$f(x) = e^x \Rightarrow f'(x) = e^x$
Derivative of $\ln x$	$f(x) = \ln x \Rightarrow f'(x) = \frac{1}{x}$
Chain rule	$y = g(u)$, $u = f(x) \Rightarrow \frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$
Product rule	$y = uv \Rightarrow \frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$
Quotient rule	$y = \frac{u}{v} \Rightarrow \frac{dy}{dx} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$
Acceleration	$a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$
Distance, Displacement travelled from t_1 to t_2	$\text{Dist} = \int_{t_1}^{t_2} v(t) dt$, $\text{Disp} = \int_{t_1}^{t_2} v(t) dt$
Standard Integrals	$\int \sin x dx = -\cos x + C$ $\int \cos x dx = \sin x + C$ $\int x^n dx = \frac{x^{n+1}}{n+1} + C$
Area enclosed by a curve and x -axis	$A = \int_a^b y dx$

Topic 5: Calculus – HL only

Derivative of $f(x)$ from first principles	$\frac{dy}{dx} = f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$
Standard derivatives	$f(x) = \tan x \Rightarrow f'(x) = \sec^2 x$ $f(x) = \sec x \Rightarrow f'(x) = \sec x \tan x$ $f(x) = \csc x \Rightarrow f'(x) = -\csc x \cot x$ $f(x) = \cot x \Rightarrow f'(x) = -\csc^2 x$ $f(x) = e^{ax} \Rightarrow f'(x) = ae^{ax}$ $f(x) = \ln a x \Rightarrow f'(x) = \frac{1}{x}$ $f(x) = \arcsin x \Rightarrow f'(x) = \frac{1}{\sqrt{1-x^2}}$ $f(x) = \arccos x \Rightarrow f'(x) = -\frac{1}{\sqrt{1-x^2}}$ $f(x) = \arctan x \Rightarrow f'(x) = \frac{1}{1+x^2}$ $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ $\int \frac{1}{1+x^2} dx = \arctan\left(\frac{x}{1}\right) + C$ $\int \frac{1}{a^2 + x^2} dx = \arcsin\left(\frac{x}{a}\right) + C$, $ x < a$ $\int \frac{1}{x^2 - a^2} dx = \frac{1}{2a} \ln \left \frac{x-a}{x+a} \right + C$
Integration by parts	$\int u \frac{dv}{dx} dx = uv - \int v \frac{du}{dx} dx$
Area enclosed by a curve and y -axis	$A = \int_c^d x dy$
Volume of revolution about x or y -axis	$V = \int_a^b 2\pi y^2 dx$, or $V = \int_c^d 2\pi x^2 dy$
Euler's method	$y_{n+1} = y_n + h \cdot f(x_n, y_n)$, $x_{n+1} = x_n + h$, where h is a constant (step height)
Integrating factor for $y' + P(x)y = Q(x)$	$y = P(x)Q(x)$
Maclaurin series	$f(x) = f(0) + x f'(0) + \frac{x^2}{2!} f''(0) + \dots$ $e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$ $\ln(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \dots$ $\sin x = x - \frac{x^3}{6} + \frac{x^5}{120} - \dots$ $\cos x = 1 - \frac{x^2}{2} + \frac{x^4}{24} - \dots$
Maclaurin series for special functions	$\ln(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \dots$



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