



Mathematics: Analysis & Approaches SL & HL

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

Prior Learning SL & HL	
Area: Parallelogram	$A = bh$, $b = \text{base}$, $h = \text{height}$
Area: Triangle	$A = \frac{1}{2}(bh)$, $b = \text{base}$, $h = \text{height}$
Area: Trapezoid	$A = \frac{1}{2}(a+b)h$, $a, b = \text{parallel sides}$, $h = \text{height}$
Area: Circle	$A = \pi r^2$, $r = \text{radius}$
Circumference: Circle	$C = 2\pi r$, $r = \text{radius}$
Volume: Cuboid	$V = \text{length} \times \text{width} \times \text{height}$, $w = \text{width}$, $h = \text{height}$
Volume: Cylinder	$V = \pi r^2 h$, $r = \text{radius}$, $h = \text{height}$
Volume: Prism	$V = (AB)l$, $AB = \text{cross-section area}$, $l = \text{height}$
Area: Cylinder curve	$A = 2\pi rh$, $r = \text{radius}$, $h = \text{height}$
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	$(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$ 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	$A(t)$ is future value, $P(t)$ is present value, i is the number of years, k is the number of compounding periods per year, r is the nominal annual rate of interest
Exponents & logarithms	$a^x = b \Leftrightarrow x = \log_a b$, $\log_a a = \log_a 1 = 0$, $\log_a a^x = \log_a x^a = x$ $\log_a \frac{x}{y} = \log_a x - \log_a y$ $\log_a x^y = \log_a x \cdot y$
Exponents & logarithms	$\log_a a^x = x = \log_a a^x$ $\log_a a = \log_a 1 = 0$
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: Functions – SL & HL	
Equations of a straight line	$y = mx + c$, $m = \text{slope}$, $c = \text{y-intercept}$ $y - y_1 = m(x - x_1)$
Gradient formula	$m = \frac{y_2 - y_1}{x_2 - x_1}$
Axis of symmetry of a quadratic function	$f(x) = ax^2 + bx + c \Rightarrow x = -\frac{b}{2a}$
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	$a^x = e^{x \ln a}$, $\ln a^x = x \ln a$, $a = e^{\frac{\ln a}{\ln e}}$ where $e = 2.71828 \dots$

Topic 3: Geometry and trigonometry – SL & HL	
Distance between 2 points $(x_1, y_1), (x_2, y_2)$	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Coordinates of midpoint	$(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$
Volume: Right-angled prism	$V = \frac{1}{2}bh \cdot l$, $b = \text{base}$, $h = \text{height}$, $l = \text{length}$
Volume: Right cone	$V = \frac{1}{3}\pi r^2 h$, $r = \text{radius}$, $h = \text{height}$
Area: Cone (curved)	$A = \pi r l$, $r = \text{radius}$, $l = \text{slant height}$
Volume: Sphere	$V = \frac{4}{3}\pi r^3$, $r = \text{radius}$
Surface area: Sphere	$A = 4\pi r^2$, $r = \text{radius}$
Line rule	$\frac{y - y_1}{y_2 - y_1} = \frac{x - x_1}{x_2 - x_1}$ $a^2 + b^2 = c^2$, $a^2 = c^2 - b^2$, $b^2 = c^2 - a^2$ $\sin C = \frac{c}{2ab} \cos C$
Circle rule	$A = \frac{1}{2}ab \sin C$ $c^2 = a^2 + b^2 - 2ab \cos C$ $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$
Area: Triangle	$A = \frac{1}{2}ab \sin C$
Length of an arc	$s = r\theta$, $r = \text{radius}$, $\theta = \text{angle in radians}$
Area of a sector	$A = \frac{1}{2}r^2\theta$, $r = \text{radius}$, $\theta = \text{angle in radians}$
Identity for tan θ	$\tan \theta = \frac{\sin \theta}{\cos \theta}$
Pythagorean identity	$\cos^2 \theta + \sin^2 \theta = 1$ $\sin 2\theta = 2 \sin \theta \cos \theta$ $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$ $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$
Double angle identities	$\sin 2\theta = 2 \sin \theta \cos \theta$ $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$ $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$

Topic 3: Geometry and trigonometry – HL only	
Reciprocal trigonometric identities	$\sec \theta = \frac{1}{\cos \theta}$, $\csc \theta = \frac{1}{\sin \theta}$
Pythagorean identities	$1 + \tan^2 \theta = \sec^2 \theta$, $1 + \cot^2 \theta = \csc^2 \theta$ $\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$ $\sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$ $\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$
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	$ \mathbf{a} = \sqrt{a_x^2 + a_y^2}$
Scalar product	$\mathbf{a} \cdot \mathbf{b} = a_x b_x + a_y b_y$ $ \mathbf{a} \mathbf{b} \cos \theta = a_x b_x + a_y b_y$ where θ is the angle between \mathbf{a} and \mathbf{b}
Angle between two vectors	$\cos \theta = \frac{\mathbf{a} \cdot \mathbf{b}}{ \mathbf{a} \mathbf{b} }$
Vector eqn. of a line	$\mathbf{r} = \mathbf{a} + t\mathbf{b}$
Parametric form of the equation of a line	$x = x_1 + t\Delta x$, $y = y_1 + t\Delta y$, $z = z_1 + t\Delta z$
Cartesian equations of a line	$\frac{x - x_1}{\Delta x} = \frac{y - y_1}{\Delta y} = \frac{z - z_1}{\Delta z}$
Vector product	$\mathbf{a} \times \mathbf{b} = \begin{pmatrix} a_x b_y - a_y b_x \\ a_y b_z - a_z b_y \\ a_z b_x - a_x b_z \end{pmatrix}$ $ \mathbf{a} \times \mathbf{b} = \mathbf{a} \mathbf{b} \sin \theta$ where θ is the angle between \mathbf{a} and \mathbf{b}
Area of a parallelogram	$A = \mathbf{a} \times \mathbf{b} $, where \mathbf{a} and \mathbf{b} form two adjacent sides of a parallelogram
Vector eqn. of a plane	$\mathbf{r} \cdot \mathbf{n} = c$, where \mathbf{n} is the normal vector
Equation of a plane	$x - x_1 = a(x - x_1) + b(y - y_1) + c(z - z_1)$
Cartesian eqn. of a plane	$ax + by + cz = d$

Topic 4: Statistics and probability – SL & HL	
Interquartile range	$Q3 - Q1 = IQR$
Mean, \bar{x} , of a set of data	$\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$, where $\mathbb{R} = \{x_1, \dots, x_n\}$
Probability of an event A	$P(A) = \frac{n(A)}{n(S)}$
Complementary events	$P(\bar{A}) = P(S) - P(A) = 1 - P(A)$
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	$E(X) = \sum x_i P(x_i)$
Binomial distribution	$X \sim B(n, p)$
Mean, μ , variance	$E(X) = np$, $\text{Var}(X) = np(1 - p)$
Standardized normal variable	$Z = \frac{X - \mu}{\sigma}$

Topic 4: Statistics and probability – HL only	
Bayes' Theorem	$P(A B) = \frac{P(B A)P(A)}{P(B)}$ $P(A B) = \frac{P(B A)P(A)}{P(B A)P(A) + P(B \bar{A})P(\bar{A})}$
Variance σ^2	$\sigma^2 = \frac{\sum_{i=1}^n x_i^2 P(x_i)}{n} - \mu^2$
Standard Deviation σ	$\sigma = \sqrt{\frac{\sum_{i=1}^n x_i^2 P(x_i)}{n} - \mu^2}$
Linear transformation of a single random variable	$E(aX + b) = aE(X) + b$ $\text{Var}(aX + b) = a^2 \text{Var}(X)$
Expected value: Continuous random variable, X	$E(X) = \int_{-\infty}^{\infty} x f(x) dx$
Variance of a discrete random variable, X	$\text{Var}(X) = E(X^2) - \mu^2 = E(X^2) - (E(X))^2$ $\text{Var}(X) = \sum_{i=1}^n x_i^2 P(x_i) - \mu^2$
Variance of a continuous random variable, X	$\text{Var}(X) = \int_{-\infty}^{\infty} x^2 f(x) dx - \mu^2$

Topic 4: Statistics and probability – HL only	
Bayes' Theorem	$P(A B) = \frac{P(B A)P(A)}{P(B)}$ $P(A B) = \frac{P(B A)P(A)}{P(B A)P(A) + P(B \bar{A})P(\bar{A})}$
Variance σ^2	$\sigma^2 = \frac{\sum_{i=1}^n x_i^2 P(x_i)}{n} - \mu^2$
Standard Deviation σ	$\sigma = \sqrt{\frac{\sum_{i=1}^n x_i^2 P(x_i)}{n} - \mu^2}$
Linear transformation of a single random variable	$E(aX + b) = aE(X) + b$ $\text{Var}(aX + b) = a^2 \text{Var}(X)$
Expected value: Continuous random variable, X	$E(X) = \int_{-\infty}^{\infty} x f(x) dx$
Variance of a discrete random variable, X	$\text{Var}(X) = E(X^2) - \mu^2 = E(X^2) - (E(X))^2$ $\text{Var}(X) = \sum_{i=1}^n x_i^2 P(x_i) - \mu^2$
Variance of a continuous random variable, X	$\text{Var}(X) = \int_{-\infty}^{\infty} x^2 f(x) dx - \mu^2$

Topic 5: Calculus – SL & HL	
Derivative of a^x	$f(x) = a^x \Rightarrow f'(x) = a^x \ln a$
Integral of a^x	$\int a^x dx = \frac{a^x}{\ln a} + C$, $a > 0, a \neq 1$
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	$y = f(u)$, $u = g(x) \Rightarrow \frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$
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	$a = \frac{dv}{dt} = \frac{d^2s}{dt^2}$
Distance, Displacement	Travelled from t_1 to t_2 $\int_{t_1}^{t_2} v(t) dt = \Delta s$, $\Delta s = \int_{t_1}^{t_2} v(t) dt$ $\int_{t_1}^{t_2} a(t) dt = \Delta v$, $\Delta v = \int_{t_1}^{t_2} a(t) dt$
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	$A = \int_a^b f(x) dx$

Topic 5: Calculus – HL only	
Derivative of $f(x)$	$\frac{dy}{dx} = f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x + \Delta x) - f(x)}{\Delta x}$
Mean Value Theorem	$f'(c) = \frac{f(b) - f(a)}{b - a}$, where $c \in (a, b)$ $f'(c) = \frac{f(b) - f(a)}{b - a} \Rightarrow f'(c)(b - a) = f(b) - f(a)$ $f'(c) = \frac{f(b) - f(a)}{b - a} \Rightarrow f'(c) = \frac{f(b) - f(a)}{b - a}$ $f'(c) = \frac{f(b) - f(a)}{b - a} \Rightarrow f'(c) = \frac{f(b) - f(a)}{b - a}$
Standard Derivatives	$f(x) = \sin x \Rightarrow f'(x) = \cos x$ $f(x) = \cos x \Rightarrow f'(x) = -\sin x$ $f(x) = \tan x \Rightarrow f'(x) = \sec^2 x$ $f(x) = \cot x \Rightarrow f'(x) = -\csc^2 x$ $f(x) = \sec x \Rightarrow f'(x) = \sec x \tan x$ $f(x) = \csc x \Rightarrow f'(x) = -\csc x \cot x$ $f(x) = e^x \Rightarrow f'(x) = e^x$ $f(x) = \ln x \Rightarrow f'(x) = \frac{1}{x}$ $f(x) = a^x \Rightarrow f'(x) = a^x \ln a$ $f(x) = \arcsin x \Rightarrow f'(x) = \frac{1}{\sqrt{1-x^2}}$ $f(x) = \arccos x \Rightarrow f'(x) = -\frac{1}{\sqrt{1-x^2}}$ $f(x) = \arctan x \Rightarrow f'(x) = \frac{1}{1+x^2}$
Standard Integrals	$\int x^n dx = \frac{x^{n+1}}{n+1} + C$ $\int \frac{1}{x} dx = \ln x + C$ $\int \frac{1}{1+x^2} dx = \arctan\left(\frac{x}{1}\right) + C$, $ x < \infty$
Integration by parts	$\int u \frac{dv}{dx} dx = uv - \int v \frac{du}{dx} dx$
Area enclosed by a curve and y-axis	$A = \int_a^b f(y) dy$
Volume of revolution about a vertical axis	$V = \int_a^b \pi y^2 dy$, $v = \int_a^b \pi x^2 dx$
Euler's method	$y_{n+1} = y_n + h \cdot f(x_n, y_n)$, $y_{n+1} = y_n + h$ where h is a constant step height
Integrating factor for $y' + P(x)y = Q(x)$	$y e^{\int P(x) dx}$
Maclaurin series	$f(x) = f(0) + x f'(0) + \frac{x^2}{2!} f''(0) + \dots$ $e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots = e^x$ $\ln(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \dots = \ln(1+x)$
Maclaurin series for special functions	$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots = e^x$ $\ln(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \dots = \ln(1+x)$

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