EDEXCEL A LEVEL MATHS – INVERSE FORMULA BOOKLET

All the formula + identities NOT in the formula booklet that you need to know.

BASIC GCSE EQUATIONS

Quadratic Equation:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Cosine Rule:

$$a^2 = b^2 + c^2 - 2bc\cos A$$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Sine rule:

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{C}{\sin C}$$

Area of a triangle:

$$A = \frac{1}{2}ab\sin C$$

COORDINATE GEOMETRY

For straight line between (x_1, y_1) and (x_2, y_2):

Gradient, $m = \frac{y_2 - y_1}{x_2 - x_1}$

Length $= \sqrt{(x_2 - x_1) + (y_2 - y_1)}$

Midpoint: $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

Lines perpendicular if: $m_1 m_2 = -1$

Equation of a straight line:

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

Equation of a circle (centre (a, b), radius r):

$$(x - a)^2 + (y - b)^2 = r^2$$

Circle theorems:

- The perpendicular bisector of a chord will pass through the centre of a circle.
- A tangent to a circle is perpendicular to the radius of the circle at the point of intersection.
- The angle in a semicircle is 90°/ $\pi/2$ rad.

LAWS OF INDICES

$$a^m \times a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$(a^m)^n = a^{mn}$$

$$(ab)^n = a^n b^n$$

$$a^{\frac{1}{m}} = \sqrt[m]{a}$$

$$a^{-m} = \frac{1}{a^m}$$

LAWS OF LOGARITHMS

$$\boxed{a^x = y} \Longrightarrow \boxed{x = \log_a(y)}$$

$$\log_a(x) + \log_a(y) = \log_a(xy)$$

$$\log_a(x) - \log_a(y) = \log_a\left(\frac{x}{y}\right)$$

$$\log_a(x^y) = y\log_a(x)$$

$$\log_a(a) = 1$$

$$\log_a(1) = 0$$

$$\log_a\left(\frac{1}{x}\right) = -\log_a(x)$$

VECTORS

$$\overrightarrow{AB} = \overrightarrow{OB} - \overrightarrow{OA}$$

$$\hat{\underline{a}} = \frac{1}{|\underline{a}|}\underline{a}$$

For $\underline{a} = \begin{pmatrix} i \\ j \\ k \end{pmatrix}$, $|\underline{a}| = \sqrt{i^2 + j^2 + k^2}$

SEQUENCES + SERIES

General forms of arithmetic and geometric series:

Arithmetic:

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

Geometric:

$$u_n = ar^{n-1}$$

TRIGONOMETRY

Trig Definitions:

$$\frac{\sin\theta}{\cos\theta} \equiv \tan\theta$$

$$\frac{1}{\sin\theta} \equiv \operatorname{cosec}\theta$$

$$\frac{1}{\cos\theta} \equiv \sec\theta$$

$$\frac{\cos\theta}{\sin\theta} \equiv \frac{1}{\tan\theta} \equiv \cot\theta$$

Pythagorean identities:

$$\sin^2\theta + \cos^2\theta \equiv 1$$

$$1 + \cot^2\theta \equiv \operatorname{cosec}^2\theta$$

$$\tan^2\theta + 1 \equiv \sec^2\theta$$

Double angle formulae:

$$\sin 2\theta = 2\sin\theta\cos\theta$$

$$\begin{aligned}\cos 2\theta &= \cos^2\theta - \sin^2\theta \\ &= 2\cos^2\theta - 1 \\ &= 1 - 2\sin^2\theta\end{aligned}$$

$$\tan 2\theta = \frac{2\tan\theta}{1 - \tan^2\theta}$$

RADIANS

Definition:

$$1\text{rad} = \frac{180°}{\pi}$$

Arc length:

$$l = r\theta$$

Sector area:

$$A = \frac{1}{2}r^2\theta$$

FACTOR THEOROM

If $f(p) = 0$ then $(x - p)$ is a factor of $f(x)$

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S Ben Porath

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