

# MEI OCR Maths Formulas

The Circle Formula - ANS- $(x - a)^2 + (y - b)^2 = r^2$

Where (a,b) is the centre and (x,y) is any point on the circle.

The Discriminant - ANS- $b^2 - 4ac$

Where 0 gives a tangent (repeated root);

> 0 gives two real roots;

< 0 gives no real roots;

$d^2y/dx^2 > 0$  = minimum point

SUVAT - ANS- $v = u + at$

$s = ut + 0.5at^2$

$v^2 = u^2 + 2as$

$s = vt - 0.5at^2$

$s = 0.5t(u + v)$

Product Rule - ANS- $dy/dx = u(dv/dx) + v(du/dx)$

Quotient Rule - ANS- $dy/dx = (v(du/dx) - u(dv/dx)) / v^2$

Where the original equation is  $y = u/v$ .

Chain Rule - ANS- $dy/dx = (dy/dt)(dt/dx)$

Where t can be any variable.

The Trapezium Rule - ANS- $AREA = 0.5(Width\ of\ strips)(FirstHeight + 2(\Sigma\ Middle\ Heights) + FinalHeight)$

Trigonometric Differentiations - ANS- $d\sin\theta/dx = \cos\theta$

$d\cos\theta/dx = -\sin\theta$

$d\tan\theta/dx = \sec^2\theta$

Trigonometric Identities - ANS- $\sin\theta/\cos\theta = \tan\theta$

$\cos\theta/\sin\theta = \cot\theta$

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

$\sin\theta = \cos(90 - \theta)$

$\cos\theta = \sin(90 - \theta)$

Trig Derivations - ANS- $\cot\theta = 1/\tan\theta$

$\sec\theta = 1/\cos\theta$

$\operatorname{cosec}\theta = 1/\sin\theta$

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

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

R and  $\alpha$  - ANS- $A\sin x + B\cos x = R\sin(x+\alpha)$

# Maths Mei Ocr C1 May 2013

**Ben Sparks, Claire Baldwin**

A red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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