

## ALGEBRAIC FORMULAE

- $a^0 = 1$
- $(a + b)^2 = a^2 + 2ab + b^2$
- $(a - b)^2 = a^2 - 2ab + b^2$
- $a^2 - b^2 = (a + b)(a - b)$
- $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
- $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
- $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$
- $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$

## TRIGONOMETRIC FORMULAE

- $\sin^2 \theta + \cos^2 \theta = 1$
- $1 + \tan^2 \theta = \sec^2 \theta$
- $1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$
- $\tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{1}{\cot \theta}$
- $\cot \theta = \frac{\cos \theta}{\sin \theta} = \frac{1}{\tan \theta}$
- $\sec \theta = \frac{1}{\cos \theta}$
- $\operatorname{cosec} \theta = \frac{1}{\sin \theta}$
- $\sin 2\theta = 2 \sin \theta \cos \theta = \frac{2 \tan \theta}{1 + \tan^2 \theta}$
- $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$   
 $= 2 \cos^2 \theta - 1$   
 $= 1 - 2 \sin^2 \theta$
- $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$
- $\sin 3\theta = 3 \sin \theta - 4 \sin^3 \theta$
- $\cos 3\theta = 4 \cos^3 \theta - 3 \cos \theta$
- $\tan 3\theta = \frac{3 \tan \theta - \tan^3 \theta}{1 - 3 \tan^2 \theta}$
- $1 + \cos 2\theta = 2 \cos^2 \theta$
- $1 - \cos 2\theta = 2 \sin^2 \theta$
- $1 + \sin 2\theta = (\cos \theta + \sin \theta)^2$
- $1 - \sin 2\theta = (\cos \theta - \sin \theta)^2$
- $\sin(a + b) = \sin a \cos b + \cos a \sin b$
- $\sin(a - b) = \sin a \cos b - \cos a \sin b$
- $\cos(a + b) = \cos a \cos b - \sin a \sin b$
- $\cos(a - b) = \cos a \cos b + \sin a \sin b$

- $\sin A + \sin B = 2 \sin \left( \frac{A+B}{2} \right) \cos \left( \frac{A-B}{2} \right)$
- $\sin A - \sin B = 2 \cos \left( \frac{A+B}{2} \right) \sin \left( \frac{A-B}{2} \right)$
- $\cos A + \cos B = 2 \cos \left( \frac{A+B}{2} \right) \cos \left( \frac{A-B}{2} \right)$
- $\cos A - \cos B = -2 \sin \left( \frac{A+B}{2} \right) \sin \left( \frac{A-B}{2} \right)$
- $\sin A \cos B = \frac{1}{2} [\sin(A+B) + \sin(A-B)]$
- $\cos A \sin B = \frac{1}{2} [\sin(A+B) - \sin(A-B)]$
- $\cos A \cos B = \frac{1}{2} [\cos(A+B) + \cos(A-B)]$
- $\sin A \sin B = -\frac{1}{2} [\cos(A+B) - \cos(A-B)]$

- $\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$
- $\tan(A-B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$
- $\tan \left( \frac{\pi}{4} + \theta \right) = \frac{1 + \tan \theta}{1 - \tan \theta}$
- $\tan \left( \frac{\pi}{4} - \theta \right) = \frac{1 - \tan \theta}{1 + \tan \theta}$
- $\tan^{-1} \left( \frac{x+y}{1-xy} \right) = \tan^{-1} x + \tan^{-1} y$
- $\tan^{-1} \left( \frac{x-y}{1+xy} \right) = \tan^{-1} x - \tan^{-1} y$

- $\log a + \log b = \log ab$
- $\log a - \log b = \log \left( \frac{a}{b} \right)$
- $\log a^m = m \log a$
- $a^{\log_a b} = b$
- $\log_a a = 1$
- $\log_b a = \frac{\log a}{\log b}$
- $\log e = 1$
- $\log 1 = 0$

- $a^0 = 1$
- $(ab)^m = a^m b^m$
- $\left( \frac{a}{b} \right)^m = \frac{a^m}{b^m}$
- $a^m a^n = a^{m+n}$
- $\frac{a^m}{a^n} = a^{m-n}$
- $a^{-m} = \frac{1}{a^m}$
- $a^m = \frac{1}{a^{-m}}$
- $(a^m)^n = a^{mn}$
- $\sqrt{a} = a^{\frac{1}{2}}$
- $\sqrt[3]{a} = a^{\frac{1}{3}}$
- $\sqrt[n]{a} = a^{\frac{1}{n}}$

- $\sin(-\theta) = -\sin \theta$
- $\cos(-\theta) = \cos \theta$
- $\tan(-\theta) = -\tan \theta$
- $\sin \left( \frac{\pi}{2} - \theta \right) = \cos \theta$
- $\cos \left( \frac{\pi}{2} - \theta \right) = \sin \theta$
- $\tan \left( \frac{\pi}{2} - \theta \right) = \cot \theta$
- $\cot \left( \frac{\pi}{2} - \theta \right) = \tan \theta$
- $\operatorname{cosec} \left( \frac{\pi}{2} - \theta \right) = \sec \theta$
- $\sec \left( \frac{\pi}{2} - \theta \right) = \operatorname{cosec} \theta$
- $\sin \left( \frac{\pi}{2} + \theta \right) = \cos \theta$
- $\cos \left( \frac{\pi}{2} + \theta \right) = -\sin \theta$
- $\sin(\pi + \theta) = -\sin \theta$
- $\cos(\pi + \theta) = -\cos \theta$
- $\sin(\pi - \theta) = \sin \theta$
- $\cos(\pi - \theta) = -\cos \theta$

# Hsc Maths Guide Plus One

**Rachel S Tattersall**



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1 imagine a white lizard and a brown lizard sitting on a brown rock

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