HSC IMPORTANT FORMULAE FOR BOARD EXAM REFERENCE

ALGEBRAIC FORMULAE

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

5.
$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

6. $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
7. $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$
8. $a^3 - b^3 = (a-b)(a^2 + ab + b^2)$

TRIGONOMETRIC FORMULAE

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

2. $1 + \tan^2 \theta = \sec^2 \theta$
3. $1 + \cot^2 \theta = \csc^2 \theta$
4. $\tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{1}{\cot \theta}$
5. $\cot \theta = \frac{\cos \theta}{\sin \theta} = \frac{1}{\tan \theta}$
6. $\sec \theta = \frac{1}{\cos \theta}$
7. $\csc \theta = \frac{1}{\sin \theta}$
8. $\sin 2\theta = 2\sin \theta \cos \theta = \frac{2\tan \theta}{(1 + \tan^2 \theta)}$
9. $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$
 $= 2\cos^2 \theta - 1$
 $= 1 - 2\sin^2 \theta$

$$= \frac{1-\tan^2\theta}{1+\tan^2\theta}$$
10. $\tan 2\theta = \frac{2\tan\theta}{1-\tan^2\theta}$
11. $\sin 3\theta = 3\sin\theta - 4\sin^3\theta$
12. $\cos 3\theta = 4\cos^3\theta - 3\cos\theta$
13. $\tan 3\theta = \frac{3\tan\theta - \tan^3\theta}{1-3\tan^2\theta}$
14. $1+\cos 2\theta = 2\cos^2\theta$
15. $1-\cos 2\theta = 2\sin^2\theta$
16. $1+\sin 2\theta = (\cos\theta + \sin\theta)^2$
17. $1-\sin 2\theta = (\cos\theta - \sin\theta)^2$
18. $\sin(\alpha + b) = \sin\alpha\cos b + \cos\alpha\sin b$
19. $\sin(\alpha - b) = \sin\alpha\cos b - \cos\alpha\sin b$
20. $\cos(\alpha + b) = \cos\alpha\cos b - \sin\alpha\sin b$
21. $\cos(\alpha - b) = \cos\alpha\cos b + \sin\alpha\sin b$

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

2. $\sin A - \sin B = 2 \cos \left(\frac{A+B}{2}\right) \sin \left(\frac{A-B}{2}\right)$
3. $\cos A + \cos B = 2 \cos \left(\frac{A+B}{2}\right) \cos \left(\frac{A-B}{2}\right)$
4. $\cos A - \cos B = -2 \sin \left(\frac{A+B}{2}\right) \sin \left(\frac{A-B}{2}\right)$

5.
$$sinA cosB = \frac{1}{2}[sin(A + B) + sin(A - B)]$$

6. $cosA sinB = \frac{1}{2}[sin(A + B) - sin(A - B)]$
7. $cosA cosB = \frac{1}{2}[cos(A + B) + cos(A - B)]$
8. $sinA sinB = -\frac{1}{2}[cos(A + B) - cos(A - B)]$

1.
$$tan(A + B) = \frac{tanA + tanB}{1 - tanAtanB}$$
2.
$$tan(A - B) = \frac{tanA - tanB}{1 + tanAtanB}$$
3.
$$tan(\frac{\pi}{4} + \theta) = \frac{1 + tan\theta}{1 - tan\theta}$$

1. log a + log b = log ab

2. $\log a - \log b = \log \left(\frac{a}{b}\right)$

4.
$$\tan\left(\frac{\pi}{4} - \theta\right) = \frac{1 - \tan\theta}{1 + \tan\theta}$$

5. $\tan^{-1}\left(\frac{x + y}{1 - xy}\right) = \tan^{-1}x + \tan^{-1}y$
6. $\tan^{-1}\left(\frac{x - y}{1 + xy}\right) = \tan^{-1}x - \tan^{-1}y$

3.
$$\log a^m = m \log a$$

1. $a^0 = 1$
2. $(ab)^m = a^m b^m$
3. $\binom{a}{b}^m = \frac{a^m}{b^m}$
4. $a^m a^n = a^{m+n}$
5. $\frac{a^m}{a^n} = a^{m-n}$

6.
$$a^{-m} = \frac{1}{a^m}$$

7. $a^m = \frac{1}{a^{-m}}$
8. $(a^m)^n = a^{mn}$
9. $\sqrt{a} = a^{\frac{1}{2}}$

6. $log_b a = \frac{log a}{log b}$

4. $a^{\log_a b} = b$

5. $log_a a = 1$

10.
$$\sqrt[3]{a} = a^{\frac{1}{3}}$$

11. $\sqrt[8]{a} = a^{\frac{1}{3}}$

7. log e = 1

8. log 1 = 0

1.
$$sin(-\theta) = -sin \theta$$

2. $cos(-\theta) = cos \theta$
3. $tan(-\theta) = -tan \theta$
4. $sin(\frac{\pi}{2} - \theta) = cos \theta$

4.
$$sin\left(\frac{\pi}{2} - \theta\right) = cos \theta$$

5. $cos\left(\frac{\pi}{2} - \theta\right) = sin \theta$
6. $tan\left(\frac{\pi}{2} - \theta\right) = cot \theta$

7.
$$\cot\left(\frac{\pi}{2} - \theta\right) = \tan\theta$$

8. $\csc\left(\frac{\pi}{2} - \theta\right) = \sec\theta$
9. $\sec\left(\frac{\pi}{2} - \theta\right) = \csc\theta$
10. $\sin\left(\frac{\pi}{2} + \theta\right) = \cos\theta$

11. $cos\left(\frac{\pi}{2} + \theta\right) = -sin\theta$

12.
$$sin(\pi + \theta) = -sin \theta$$

13. $cos(\pi + \theta) = -cos \theta$
14. $sin(\pi - \theta) = sin \theta$
15. $cos(\pi - \theta) = -cos \theta$

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Hussin A.Rothana

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