#### 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.  $cos(\pi - \theta) = -cos \theta$ 

# **Notes For Hsc Maths Chapter Differentiation Of Target**

**WJ Hussar** 

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