## Algebra

1. 
$$(a + b)^2 = a^2 + 2ab + b^2$$

2. 
$$(a - b)^2 = a^2 - 2ab + b^2$$

3. 
$$a^2 - b^2 = (a - b)(a + b)$$

4. 
$$ax^2 + bx + c =$$

$$a\left(x - \frac{-b + \sqrt{b^2 - 4ac}}{2a}\right)\left(x - \frac{-b - \sqrt{b^2 - 4ac}}{2a}\right),$$
if  $b^2 - 4ac \ge 0$ 

## Trigonometry

#### Definitions

1. 
$$\tan x = \frac{\sin x}{\cos x}$$

2. 
$$\cot x = \frac{\cos x}{\sin x}$$

3. 
$$\sec x = \frac{1}{\cos x}$$

4. 
$$\csc x = \frac{1}{\sin x}$$

#### Identities.

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

$$2. \sin 2x = 2\sin x \cos x$$

3. 
$$\cos 2x =$$
  
 $= \cos^2 x - \sin^2 x$   
 $= 2\cos^2 x - 1$   
 $= 1 - 2\sin^2 x$ 

4. 
$$\tan^2 x + 1 = \sec^2 x$$

5. 
$$\cot^2 x + 1 = \csc^2 x$$

6. 
$$\tan 2x = \frac{2 \tan x}{1 - \tan^2 x}$$

7. 
$$\cot 2x = \frac{\cot^2 x - 1}{2 \cot x}$$

#### Decrivatives

1. 
$$(\sin x)' = \cos x$$

$$2. (\cos x)' = -\sin x$$

3. 
$$(\tan x)' = \sec^2 x$$

4. 
$$(\cot x)' = -\csc^2 x$$

5. 
$$(\sec x)' = -\tan x \sec x$$

6. 
$$(\csc x)' = -\cot x \csc x$$

7. 
$$(\arcsin x)' = \frac{1}{\sqrt{1-x^2}}$$

8. 
$$(\arccos x)' = \frac{-1}{\sqrt{1-x^2}}$$

5. 
$$(\sec x)' = -\tan x \sec x$$
  
6.  $(\csc x)' = -\cot x \csc x$   
9.  $(\arctan x)' = \frac{1}{1 + x^2}$ 

## Integrals

1. 
$$\int \cos x \, dx = \sin x$$

2. 
$$\int \sin x \, dx = -\cos x$$

3. 
$$\int \sec^2 x \, dx = \tan x$$

4. 
$$\int \csc^2 x \, dx = -\cot x$$

5. 
$$\int \cot x \, dx = \ln|\sin x|$$

6. 
$$\int \tan x \, dx =$$
  
=  $-\ln|\cos x|$ 

7. 
$$\int \sec x \, dx =$$
  
=  $\ln |\tan x + \sec x|$ 

8. 
$$\int \csc x \, dx =$$
=  $-\ln|\cot x + \csc x|$ 

## Hyperbolic functions

#### Definitions

1. 
$$\sinh x = \frac{e^x - e^{-x}}{2}$$

3. 
$$\operatorname{esch} x = \frac{1}{\sinh x}$$

5. 
$$\tanh x = \frac{\sinh x}{\cosh x}$$

$$2. \cosh x = \frac{e^x + e^{-x}}{2}$$

3. 
$$\operatorname{csch} x = \frac{1}{\sinh x}$$
4.  $\operatorname{sech} x = \frac{1}{\cosh x}$ 
5.  $\tanh x = \frac{\sinh x}{\cosh x}$ 
6.  $\coth x = \frac{\cosh x}{\sinh x}$ 

6. 
$$\coth x = \frac{\cosh x}{\sinh x}$$

#### Lebent ities.

1. 
$$\cosh^2 x - \sinh^2 x = 1$$

$$2. 1 - \tanh^2 x = \operatorname{sech}^2 x$$

3. 
$$\coth^2 x - 1 = \operatorname{csch}^2 x$$

1. 
$$\cosh^2 x - \sinh^2 x = 1$$
 4.  $\sinh 2x = 2 \sinh x \cosh x$ 

2. 
$$1 - \tanh^2 x = \operatorname{sech}^2 x$$
  
3.  $\coth^2 x - 1 = \operatorname{csch}^2 x$   
5.  $\cosh 2x = \cosh^2 x + \sinh^2 x = 2\cosh^2 x - 1$   
 $= 2\sinh^2 x + 1$ 

#### Degivatives

1. 
$$(\sinh x)' = \cosh x$$

2. 
$$(\cosh x)' = \sinh x$$

3. 
$$(\tanh x)' = \operatorname{sech}^2 x$$

4. 
$$(\cosh x)' = - \cosh^2 x$$

5. 
$$(\operatorname{sech} x)' =$$
  
=  $- \tanh x \operatorname{sech} x$ 

6. 
$$(\operatorname{csch} x)' =$$
  
=  $-\operatorname{coth} x \operatorname{csch} x$ 

7. 
$$(\operatorname{arcsinh} x)' =$$

$$= \frac{1}{\sqrt{x^2 + 1}}$$

8. 
$$(\operatorname{arccosh} x)' =$$

$$= \frac{1}{\sqrt{x^2 - 1}}$$

9. 
$$(\operatorname{arctanh} x)' =$$

$$= \frac{1}{x^2 - 1}$$

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Yan Bai



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