

Algebra

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

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

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

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

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

$$\text{if } b^2 - 4ac \geq 0$$

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

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

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

$$\begin{aligned} 3. \cos 2x &= \\ &= \cos^2 x - \sin^2 x \\ &= 2 \cos^2 x - 1 \\ &= 1 - 2 \sin^2 x \end{aligned}$$

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

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

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

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

Derivatives

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

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

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

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

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

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

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

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

$$9. (\arctan x)' = \frac{1}{1+x^2}$$

Integrals

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

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

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

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

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

$$\begin{aligned} 6. \int \tan x \, dx &= \\ &= -\ln |\cos x| \end{aligned}$$

$$\begin{aligned} 7. \int \sec x \, dx &= \\ &= \ln |\tan x + \sec x| \end{aligned}$$

$$\begin{aligned} 8. \int \csc x \, dx &= \\ &= -\ln |\cot x + \csc x| \end{aligned}$$

Hyperbolic functions

Definitions

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

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

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

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

$$4. \operatorname{sech} x = \frac{1}{\cosh x}$$

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

Identities

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

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

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

$$4. \sinh 2x = 2 \sinh x \cosh x$$

$$\begin{aligned} 5. \cosh 2x &= \\ &= \cosh^2 x + \sinh^2 x \\ &= 2 \cosh^2 x - 1 \\ &= 2 \sinh^2 x + 1 \end{aligned}$$

Derivatives

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

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

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

$$4. (\coth x)' = -\operatorname{csch}^2 x$$

$$\begin{aligned} 5. (\operatorname{sech} x)' &= \\ &= -\tanh x \operatorname{sech} x \end{aligned}$$

$$\begin{aligned} 6. (\operatorname{csch} x)' &= \\ &= -\coth x \operatorname{csch} x \end{aligned}$$

$$\begin{aligned} 7. (\operatorname{arcsinh} x)' &= \\ &= \frac{1}{\sqrt{x^2 + 1}} \end{aligned}$$

$$\begin{aligned} 8. (\operatorname{arcosh} x)' &= \\ &= \frac{1}{\sqrt{x^2 - 1}} \end{aligned}$$

$$\begin{aligned} 9. (\operatorname{artanh} x)' &= \\ &= \frac{1}{x^2 - 1} \end{aligned}$$

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S Ben Porath

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