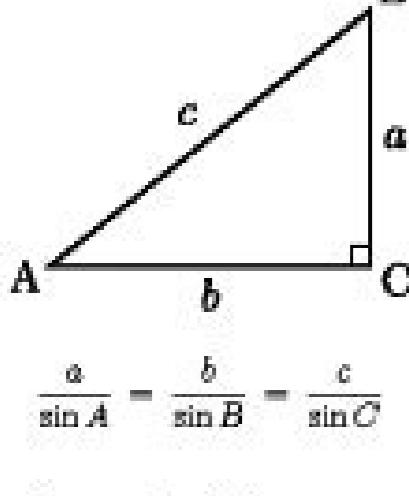


I'm not a robot!



$\text{bc ch}_2 \alpha \cdot c \cdot b \cdot d \cdot x^2 \text{Arth} t \cdot \ln\left(\frac{t-t}{t+t}\right) \text{ch} z \cdot \frac{1-t^2}{t+t^2} \int f(x,y,z) dx = (ad-bc) \text{sh} 2x \int f(x,y,z) dz = (a-b)c \cdot ac - (ad-bc)$
 $\prod_{i=1}^n y_i \cdot h \cdot s \cdot 4 \cos \omega t, t = \frac{\pi}{\omega}$
 $(a-b)(c-d) = (ac-bd)$
 $\prod_{i=1}^m y_i \cdot h \cdot s \cdot 4 \cos \omega t, t > 0$
 $\text{sh} x \text{ch} x = \frac{1}{2} \text{sh} 2x \quad p = i$
 $\text{ch}^2 x dx \cdot \frac{\pi}{\omega} \prod_{i=1}^n y_i \cdot \prod_{j=n+1}^m y_j = \prod_{x=1}^m (a_x b_x)$
 $\frac{dx}{t+t^2} \cdot \text{sh}^2 x \cdot \frac{1}{x} (\text{ch} 2x - 1)$
 $p = i \cdot \text{ch}^2 x \cdot \frac{1}{x} (\text{ch} 2x - 1)$
 $\sum_{x=1}^m (a_x b_x) \cdot \text{th} \frac{\pi}{\omega} \cdot t, \rightarrow$
 $\infty \cdot \frac{f(\mu)}{f(\delta)} = \frac{S}{k}, \sum_{i=1}^n x_i \cdot \sum_{i=1}^n x_{n+i} \cdot \text{ch}^2 x \cdot \text{sh}^2 x - 1; \quad a \cdot c = b \cdot d$
 $\iiint f(x,y,z) dV = d \iiint f(x,y,z) dV, \quad m = \iiint f(x,y,z) dV$
 $\text{ch}^2 x \cdot \text{sh}^2 x - 1, \quad \int_0^t dx \int_0^y dy \int_0^z dz$

Ley de Senos



Suma y Diferencia de Ángulos

$$\begin{aligned} \sin(x \pm y) &= \sin x \cos y \pm \cos x \sin y \\ \cos(x \pm y) &= \cos x \cos y \mp \sin x \sin y \\ \tan(x \pm y) &= \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y} \\ \csc(x \pm y) &= \frac{1}{\sin(x \pm y)} \\ \sec(x \pm y) &= \frac{1}{\cos(x \pm y)} \\ \cot(x \pm y) &= \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x} \end{aligned}$$

Ley de Cosenos

$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cos A \\ b^2 &= a^2 + c^2 - 2ac \cos B \\ c^2 &= a^2 + b^2 - 2ab \cos C \end{aligned}$$

Ley de Tangentes

$$\begin{aligned} \frac{a-b}{a+b} &= \frac{\tan\left(\frac{A-B}{2}\right)}{\tan\left(\frac{A+B}{2}\right)} \\ \frac{b-c}{b+c} &= \frac{\tan\left(\frac{B-C}{2}\right)}{\tan\left(\frac{B+C}{2}\right)} \\ \frac{a-c}{a+c} &= \frac{\tan\left(\frac{A-C}{2}\right)}{\tan\left(\frac{A+C}{2}\right)} \end{aligned}$$

Producto a Suma

$$\begin{aligned} \cos x \cos y &= \cos(x-y) + \frac{\cos(x+y)}{2} \\ \sin x \sin y &= \cos(x-y) - \frac{\cos(x+y)}{2} \\ \sin x \cos y &= \sin(x+y) + \frac{\sin(x-y)}{2} \\ \cos x \sin y &= \sin(x+y) - \frac{\sin(x-y)}{2} \end{aligned}$$

Suma a Producto

$$\begin{aligned} \sin x \pm \sin y &= 2 \sin\left(\frac{x \pm y}{2}\right) \cos\left(\frac{x \mp y}{2}\right) \\ \cos x + \cos y &= 2 \cos\left(\frac{x+y}{2}\right) \cos\left(\frac{x-y}{2}\right) \\ \cos x - \cos y &= -2 \sin\left(\frac{x+y}{2}\right) \sin\left(\frac{x-y}{2}\right) \\ \tan x \pm \tan y &= \frac{\sin(x \pm y)}{\cos x \cos y} \end{aligned}$$

Identidades Pitagóricas

$$\begin{aligned} \cos^2 x + \sin^2 x &= 1 \\ \sec^2 x - \tan^2 x &= 1 \\ \csc^2 x - \cot^2 x &= 1 \\ \sin x &= \pm \sqrt{1 - \cos^2 x} \\ \cos x &= \pm \sqrt{1 - \sin^2 x} \end{aligned}$$

Identidades de Ángulo Doble

$$\begin{aligned} \sin 2x &= \frac{2 \tan x}{1 + \tan^2 x} = 2 \sin x \cos x \\ \cos 2x &= \frac{1 - \tan^2 x}{1 + \tan^2 x} = \cos^2 x - \sin^2 x \\ &= 2 \cos^2 x - 1 = 1 - 2 \sin^2 x \\ \tan 2x &= \frac{2 \tan x}{1 - \tan^2 x} \\ \cot 2x &= \frac{\cot^2 x - 1}{2 \cot x} \end{aligned}$$

14. $f(x, y) = \sin\left(\frac{\pi xy}{4}\right); P(3, -1)$

$$\nabla f(x, y) = \left\langle \frac{1}{4} \pi y \cos\left(\frac{\pi xy}{4}\right), \frac{1}{4} \pi x \cos\left(\frac{\pi xy}{4}\right) \right\rangle \Rightarrow \nabla f(3, -1) = \left\langle \frac{1}{8} \pi \sqrt{2}, -\frac{3}{8} \pi \sqrt{2} \right\rangle.$$

15. $f(x, y, z) = y^2 - z^2; P(17, 3, 2)$

$$\nabla f(x, y, z) = \langle 0, 2y, -2z \rangle \Rightarrow \nabla f(17, 3, 2) = \langle 0, 6, -4 \rangle.$$

16. $f(x, y, z) = \sqrt{x^2 + y^2 + z^2}; P(12, 3, 4)$

$$\nabla f(x, y, z) = \left\langle \frac{x}{\sqrt{x^2 + y^2 + z^2}}, \frac{y}{\sqrt{x^2 + y^2 + z^2}}, \frac{z}{\sqrt{x^2 + y^2 + z^2}} \right\rangle \Rightarrow \nabla f(12, 3, 4) = \left\langle \frac{12}{13}, \frac{3}{13}, \frac{4}{13} \right\rangle$$

17. $f(x, y, z) = e^x \operatorname{sen} y + e^y \operatorname{sen} z + e^z \operatorname{sen} x; P(0, 0, 0)$

$$\nabla f(x, y, z) = \langle e^x \cos y + e^y \operatorname{sen} y, e^x \cos y + e^y \operatorname{sen} z, e^y \cos z + e^z \operatorname{sen} x \rangle \Rightarrow \nabla f(0, 0, 0) = \langle 1, 1, 1 \rangle.$$

18. $f(x, y, z) = x^2 - 3yz + z^3; P(2, 1, 0)$

$$\nabla f(x, y, z) = \langle 2x - 3z, 3z^2 - 3y \rangle \Rightarrow \nabla f(2, 1, 0) = \langle 4, 0, -3 \rangle.$$

19. $f(x, y, z) = 2\sqrt{xyz}; P(3, -4, -3)$

$$\nabla f(x, y, z) = \left\langle \frac{yz}{\sqrt{xyz}}, \frac{xz}{\sqrt{xyz}}, \frac{xy}{\sqrt{xyz}} \right\rangle \Rightarrow \nabla f(3, -4, -3) = \left\langle 2, -\frac{3}{2}, -2 \right\rangle.$$

20. $f(x, y, z) = (2x - 3y + 5z)^5; P(-5, 1, 3)$,

$$\nabla f(x, y, z) = \langle 10(2x - 3y + 5z)^4, -15(2x - 3y + 5z)^4 \rangle \Rightarrow \nabla f(-5, 1, 3) = \langle 160, -240, 400 \rangle.$$

21. $f(x, y) = x^2 y - xy^2, P(-2, 3)$

$$\nabla f(x, y) = \langle 2xy - y^2, x^2 - 2xy \rangle \Rightarrow \nabla f(-2, 3) = \langle -21, 16 \rangle$$

22. $f(x, y) = x^3 y + 3xy^2, P(2, -2)$

$$\nabla f(x, y) = \langle 3x^2 y + 3y^2 x^2 + 6xy \rangle \text{ así } \nabla f(2, -2) = \langle -12, 16 \rangle$$

RUBIÑOS

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