

**Logarithms**

$$\ln(ab) = \ln a + \ln b$$

$$\ln\left(\frac{a}{b}\right) = \ln a - \ln b$$

$$\ln a^n = n \ln a$$

$$\log_a b = \frac{\ln b}{\ln a}$$

**Binomial theorem**

$$(a+x)^n = a^n + na^{n-1}x + \frac{n(n-1)}{2!}a^{n-2}x^2 + \frac{n(n-1)(n-2)}{3!}a^{n-3}x^3 + \dots$$

**Trigonometric identities**

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

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

$$1 + \cot^2 x = \operatorname{cosec}^2 x$$

$$\sin(x+y) = \sin x \cos y + \cos x \sin y$$

$$\sin(x-y) = \sin x \cos y - \cos x \sin y$$

$$\cos(x+y) = \cos x \cos y - \sin x \sin y$$

$$\cos(x-y) = \cos x \cos y + \sin x \sin y$$

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

$$\cos 2x = \cos^2 x - \sin^2 x$$

**Circle sectors and segments**

$$s = r\theta$$

$$A_{\text{st}} = \frac{1}{2}rs = \frac{1}{2}r^2\theta$$

$$A_{\text{sm}} = \frac{1}{2}r^2(\theta - \sin \theta)$$

**General sine equations**

$$y = A \sin(\omega t - \alpha)$$

$$y = A \sin 2\pi \left( \frac{t}{T} - \frac{x}{\lambda} \right)$$

**Matrix inverse**

$$A^{-1} = \frac{\text{Adjoint}(A)}{|A|}$$

**Differentiation rules**

$$\frac{d}{dx} (f(x)g(x)) = f'(x)g(x) + f(x)g'(x)$$

$$\frac{d}{dx} \left( \frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{(g(x))^2}$$

$$\frac{d}{dx} f(g(x)) = f'(g(x))g'(x)$$

$$\frac{dy}{dx} = \frac{dy}{du} \frac{du}{dx}$$

**Newton-Raphson iteration**

$$x_1 = x_0 - \frac{f(x_0)}{f'(x_0)}$$

**Parametric differentiation**

$$\frac{dy}{dx} = \frac{dy}{dt} \frac{dt}{dx}$$

$$\frac{d^2y}{dx^2} = \left[ \frac{d}{dt} \left( \frac{dy}{dx} \right) \right] \frac{dt}{dx}$$

**Areas and volumes**

$$A = \int y dx \quad \text{and} \quad V = \pi \int y^2 dx$$

**Integration by parts**

$$\int u dv = uv - \int v du$$

$$\int uv' dx = uv - \int u'v dx$$

**Partial fractions**

$$\frac{\dots}{(x+1)(x-3)} = \frac{A}{x+1} + \frac{B}{x-3}$$

$$\frac{\dots}{(x+1)^3} = \frac{A}{x+1} + \frac{B}{(x+1)^2} + \frac{C}{(x+1)^3}$$

$$\frac{\dots}{(x^2+1)(x^2+3)} = \frac{Ax+B}{x^2+1} + \frac{Cx+D}{x^2+3}$$

**Hyperbolic functions**

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

$$\cosh x = \frac{1}{2} (e^x + e^{-x})$$

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**Tao Wei**



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