

- 1 $\frac{d}{dx}(c) = 0$
- 2 $\frac{d}{dx}[c f(x)] = c f'(x)$
- 3 $\frac{d}{dx}[f(x) + g(x)] = f'(x) + g'(x)$
- 4 $\frac{d}{dx}[f(x) - g(x)] = f'(x) - g'(x)$
- 5 $\frac{d}{dx}[f(x)g(x)] = f'(x)g(x) + f(x)g'(x)$
- 6 $\frac{d}{dx}\left[\frac{f(x)}{g(x)}\right] = \frac{f'(x)g(x) - f(x)g'(x)}{[g(x)]^2}$
- 7 $\frac{d}{dx}f(g(x)) = f'(g(x))g'(x)$
- 8 $\frac{d}{dx}(x^n) = n x^{n-1}$
- 9 $\frac{d}{dx}(e^x) = e^x$
- 10 $\frac{d}{dx}(a^x) = a^x \ln(a)$
- 11 $\frac{d}{dx} \ln|x| = \frac{1}{x}$
- 12 $\frac{d}{dx} \log_a(x) = \frac{1}{x \ln(a)}$
- 13 $\frac{d}{dx} \operatorname{sen}(x) = \cos(x)$
- 14 $\frac{d}{dx} \cos(x) = -\operatorname{sen}(x)$
- 15 $\frac{d}{dx} \operatorname{tg}(x) = \sec^2(x)$
- 16 $\frac{d}{dx} \operatorname{cossec}(x) = -\operatorname{cossec}(x)\cot(x)$
- 17 $\frac{d}{dx} \operatorname{sec}(x) = \operatorname{sec}(x) \operatorname{tg}(x)$
- 18 $\frac{d}{dx} \operatorname{cot}(x) = -\operatorname{cossec}^2(x)$
- 19 $\frac{d}{dx} \operatorname{arc sen}(x) = \frac{1}{\sqrt{1-x^2}}$
- 20 $\frac{d}{dx} \operatorname{arc cos}(x) = -\frac{1}{\sqrt{1-x^2}}$
- 21 $\frac{d}{dx} \operatorname{arc tg}(x) = \frac{1}{1+x^2}$
- 22 $\frac{d}{dx} \operatorname{arc cossec}(x) = -\frac{1}{x\sqrt{x^2-1}}$
- 23 $\frac{d}{dx} \operatorname{arc sec}(x) = \frac{1}{x\sqrt{x^2-1}}$
- 24 $\frac{d}{dx} \operatorname{arc cot}(x) = -\frac{1}{1+x^2}$
- 25 $\frac{d}{dx} \operatorname{senh}(x) = \cosh(x)$
- 26 $\frac{d}{dx} \cosh(x) = \operatorname{senh}(x)$
- 27 $\frac{d}{dx} \operatorname{tgh}(x) = \operatorname{sec h}^2(x)$
- 28 $\frac{d}{dx} \operatorname{cossec h}(x) = -\operatorname{cossec h}(x) \operatorname{cot gh}(x)$
- 29 $\frac{d}{dx} \operatorname{sech}(x) = -\operatorname{sec h}(x) \operatorname{tgh}(x)$
- 30 $\frac{d}{dx} \operatorname{cot gh}(x) = -\operatorname{cossec h}^2(x)$
- 31 $\frac{d}{dx} \operatorname{arc senh}(x) = \frac{1}{\sqrt{1+x^2}}$
- 32 $\frac{d}{dx} \operatorname{arc cosh}(x) = \frac{1}{\sqrt{x^2-1}}$
- 33 $\frac{d}{dx} \operatorname{arc tgh}(x) = \frac{1}{1-x^2}$
- 34 $\frac{d}{dx} \operatorname{arc cossec h}(x) = -\frac{1}{|x|\sqrt{x^2+1}}$
- 35 $\frac{d}{dx} \operatorname{arc sec h}(x) = -\frac{1}{x\sqrt{1-x^2}}$
- 36 $\frac{d}{dx} \operatorname{arc cot gh}(x) = \frac{1}{1-x^2}$