

Find the derivatives of the following (1 - 18) :

(1)  $y = x^{\cos x}$

(2)  $y = x^{\log x} + (\log x)^x$

(3)  $\sqrt{xy} = e^{(x-y)}$

(4)  $x^y = y^x$

(5)  $(\cos x)^{\log x}$

(6)  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$

(7)  $\sqrt{x^2 + y^2} = \tan^{-1} \left( \frac{y}{x} \right)$

(8)  $\tan(x+y) + \tan(x-y) = x$

(9) If  $\cos(xy) = x$ , show that  $\frac{dy}{dx} = \frac{-(1+y \sin(xy))}{x \sin xy}$

(10)  $\tan^{-1} \sqrt{\frac{1-\cos x}{1+\cos x}}$

(11)  $\tan^{-1} \left( \frac{6x}{1-9x^2} \right)$

(12)  $\cos \left( 2 \tan^{-1} \sqrt{\frac{1-x}{1+x}} \right)$

(13)  $x = a \cos^3 t ; y = a \sin^3 t$

(14)  $x = a(\cos t + t \sin t) ; y = a(\sin t - t \cos t)$

(15)  $x = \frac{1-t^2}{1+t^2}, y = \frac{2t}{1+t^2}$

(16)  $\cos^{-1} \left( \frac{1-x^2}{1+x^2} \right)$

(17)  $\sin^{-1}(3x-4x^3)$

(18)  $\tan^{-1} \left( \frac{\cos x + \sin x}{\cos x - \sin x} \right)$

(19) Find the derivative of  $\sin x^2$  with respect to  $x^2$ .

(20) Find the derivative of  $\sin^{-1} \left( \frac{2x}{1+x^2} \right)$  with respect to  $\tan^{-1} x$ .

(21) If  $u = \tan^{-1} \frac{\sqrt{1+x^2}-1}{x}$  and  $v = \tan^{-1} x$ , find  $\frac{du}{dv}$ .

(22) Find the derivative with  $\tan^{-1} \left( \frac{\sin x}{1+\cos x} \right)$  with respect to  $\tan^{-1} \left( \frac{\cos x}{1+\sin x} \right)$ .

(23) If  $y = \sin^{-1} x$  then find  $y''$ .

(24) If  $y = e^{\tan^{-1} x}$ , show that  $(1+x^2)y'' + (2x-1)y' = 0$ .

(25) If  $y = \frac{\sin^{-1} x}{\sqrt{1-x^2}}$ , show that  $(1-x^2)y_2 - 3xy_1 - y = 0$ .

(26) If  $x = a(\theta + \sin \theta), y = a(1 - \cos \theta)$  then prove that at  $\theta = \frac{\pi}{2}, y'' = \frac{1}{a}$ .

(27) If  $\sin y = x \sin(a+y)$ , then prove that  $\frac{dy}{dx} = \frac{\sin^2(a+y)}{\sin a}, a \neq n\pi$ .

(28) If  $y = (\cos^{-1} x)^2$ , prove that  $(1-x^2) \frac{d^2 y}{dx^2} - x \frac{dy}{dx} - 2 = 0$ . Hence find  $y_2$  when  $x = 0$

# Application Of Derivatives Problems With Answers

**Yi-Tong Ma**



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