

An English Medium Co.Ed. School | Science & Commerce

Little Steps Pre Primary wing of VSA

 An English Wedium Co.Ed. School | Science & Commerce

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Chapter-7

Class – 12th *Worksheet-29* Subject Maths Differentiation

(b) $x^2 + xy + y^2 = 200$

Find $\frac{dy}{dx}$: (a) $2x + 3y = \sin y$ 1. (a) $\sqrt{x} + \sqrt{y} = \sqrt{a}$ 2. (a) $\sin x + 2\cos^2 y + xy = 0$ 3. (a) $(x^2 + y^2)^2 = xy$ 4. (a) $x^3 + y^3 = 3axy$ 5. (a) $y = x^{y}$ 6. (a) $y = e^x + e^{x^2} + \dots + e^{x^5}$ 7. (a) $y = \frac{\cos x}{\log x}, x > 0$ 8. (a) $y\sqrt{1-x^2} = \sin^{-1}x$ 9.

10. (a)
$$y = \sqrt{\sin x} + \sqrt{\sin x} + \sqrt{\sin x} + \dots \infty$$

- (b) $\tan(x + y) + \tan(x y) = 4$ (b) $x\sqrt{y} + y\sqrt{x} = 1$ (b) $\sin(xy) + \frac{x}{y} = x^2 - y$ (b) $x^y + y^x = a^b$ (b) $x^a \cdot y^b = (x - y)^{a+b}$ (b) $y = \sqrt{e^{x}}, x > 0$
 - (b) $y = \sqrt{x}^{\sqrt{x}\sqrt{x}^{-\infty}}$

(b)
$$y\sqrt{1+x} = \sqrt{1-x}$$

(b)
$$y^{x} + x^{y} + x^{x} = a^{b}$$