

$$11. \left(\frac{dy}{dx}\right)^3 - 4\left(\frac{dy}{dx}\right)^2 + 7y = \sin.$$

Ans :- 1, 3

$$12. \frac{d^3 y}{dx^3} + 2\frac{d^2 y}{dx^2} + \frac{dy}{dx} = 0.$$

Ans :- 3, 1

$$13. x\left(\frac{dy}{dx}\right) + \frac{2}{\left(\frac{dy}{dx}\right)} + 9 = y^2.$$

Ans:- 1, 2

$$14. \sqrt{1 - \left(\frac{dy}{dx}\right)^2} = \left(a \frac{d^2 y}{dx^2}\right)^{1/3}.$$

Ans:- 2, 2

$$15. \sqrt{1 - y^2} dx + \sqrt{1 - x^2} dy = 0.$$

Ans :- 1, 1

$$16. (y'')^3 + (y')^2 + \sin y' - 1 = 0.$$

Ans:- 2, not defined

$$17. (3x + 5y) dy - 4x^2 dx = 0.$$

Ans:- 1, 1

$$18. y = \frac{dy}{dx} + \frac{5}{\left(\frac{dy}{dx}\right)}.$$

Ans:- 1, 2

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