Assigment No:- **AS/XII/Math /08/02**

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WEEKLY ASSIGNMENT SERIES

Sub-Mathematics

Class- XII

Ques.1- If $y = e^{-1}\, cosx, show\ that\ \frac{d^2x}{dx^2} = 2e^{-}\, sinx.$

Ques.2- If $y = 2sinx + 3\, cosx, show\ that\ \frac{d^2y}{dx^2} + y = 0.$

Ques.3- f(z)=z8+2z6−7z4+20z2−3f(z)=z8+2z6−7z4+20z2−3

Ques.4 y=6t4−5t3+4t2−3t+2y=6t4−5t3+4t2−3t+2

Ques.5- V(t)=6t−2+7t−3−t−4V(t)=6t−2+7t−3−t−4

Ques.6- g(x)=3x−14x3+32x5g(x)=3x−14x3+32x5

Ques.7- h(x)=8√x−3√x+54√x9h(x)=8x−x3+5x94

Ques.7- h(y)=3√y2−324√y+13√y5h(y)=y23−32y4+13y5

Ques.8- y=9sin(z)−sin(4z)+7cos(2x3)y=9sin⁡(z)−sin⁡(4z)+7cos⁡(2x3)

Ques.9- R(x)=2e−x−3e1+8x+9ln(6x)R(x)=2e−x−3e1+8x+9ln⁡(6x)

Ques.10- f(t)=ln(t6)−cos(4t)+9sin(2t)+e7tf(t)=ln⁡(t6)−cos⁡(4t)+9sin⁡(2t)+e7t.

Ques.11- Q(w)=cos(2−7w2)Q(w)=cos⁡(2−7w2)

Ques.12- f(z)=sin(1+e2x)f(z)=sin⁡(1+e2x)

Ques.13- y=tan(3x)y=tan⁡(3x)

Ques.14- z=csc(8w)z=csc⁡(8w)

Ques.15- f(u)=e4u2+9uf(u)=e4u2+9u

Ques.16- h(x)=ln(x2−3x)h(x)=ln⁡(x2−3x)

Ques.17- g(z)=ln(3+cos(z))g(z)=ln⁡(3+cos⁡(z))

Ques.18- f(x)=1√6x+x4f(x)=16x+x4

Ques.19- g(x)=sec(3x)g(x)=sec⁡(3x)

Ques.20- y=e1−2t3y=e1−2t3

Ques.21- h(w)=cos(w−w2)h(w)=cos⁡(w−w2)

Ques.22- 6y−y2=3x4+9x6y−y2=3x4+9x

Ques.23- y3−4x2=11x−2y2y3−4x2=11x−2y2

Ques.24- ey+4x=y3−1ey+4x=y3−1

Ques.25- ycos(x)=3+4y2