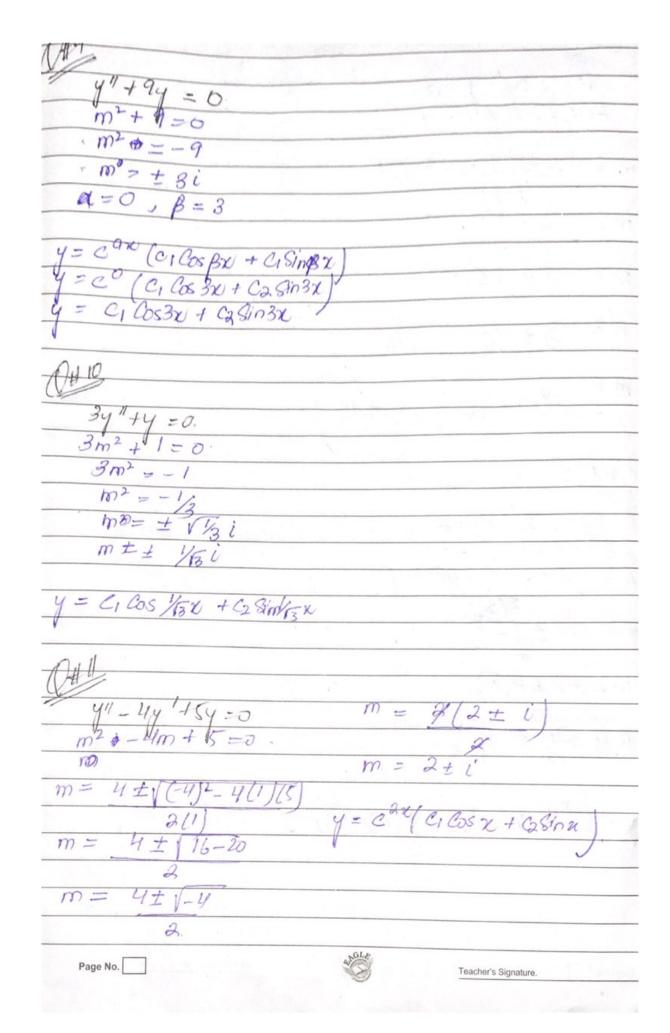
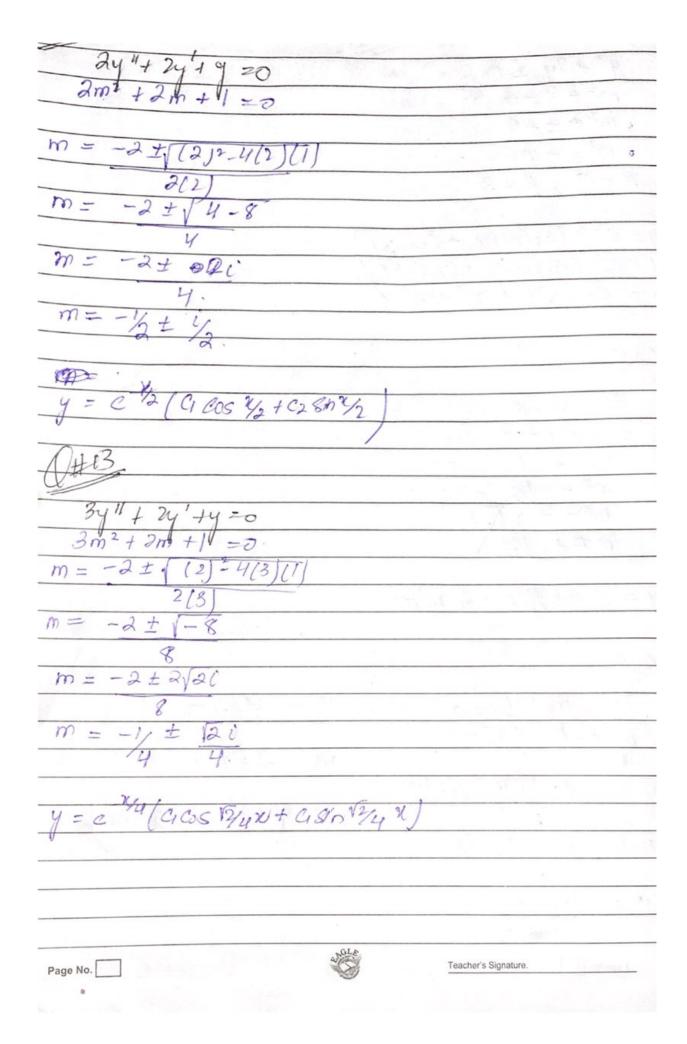
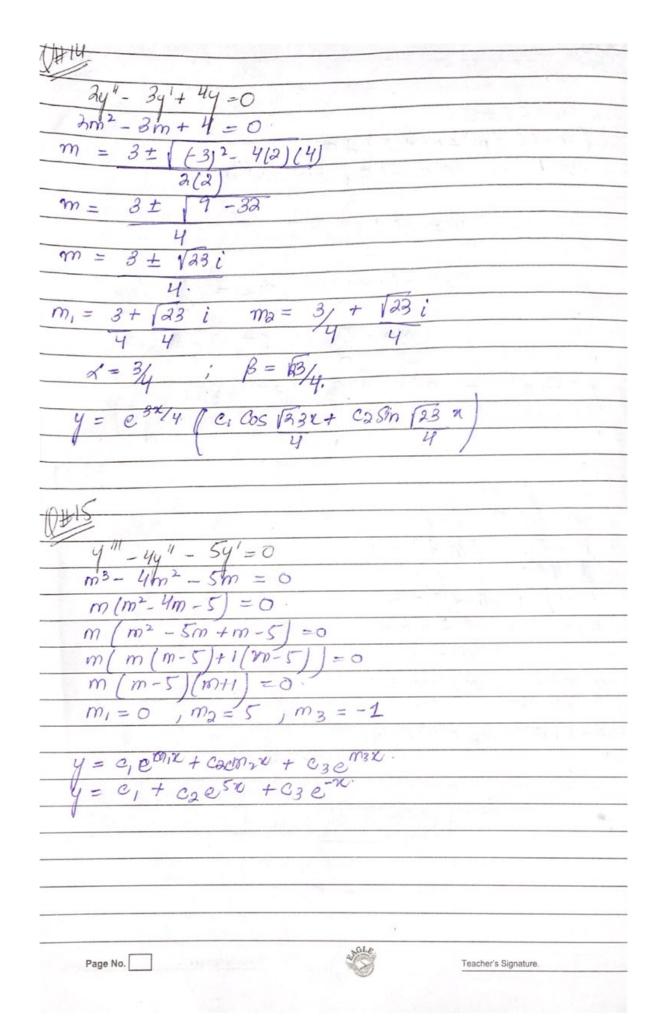


(2) Date_ y'' - 3y' + 2y = 0 $m^2 - 3m + 2l = 0$ 12y"-5y -74 =0 $m^{2}-2m-m+2=0$ m(m-2)-1(m-2)=0 (m-2)(m-1)=0 m=2 m=112m2-8m+3m-2=0 4m(3m-2)+1(3m-2)=0 (3m-2)(4m+1)=0 3m-2=0 4m+1=0m=2/3 m=-1/4. y = gentaeth 1= C16 213N + C26 - 2/4. y" + 8y + 16y =0 OH8 y"+4y'-y=0. m2+4m - 101=0 m2 + 4m+4m+16 =0. m(m+4) + 4(m+4) = 0 (m+4)(m+4) = 0 $(m+4)^2 = 0$ $m = -b \pm \sqrt{b^2 - 4aL}$ m = -4 ± (412 4(1)(-1) $m = -4 \pm \sqrt{16 + 4}$ y = c, e-4x + c2e-4x $m = 2(-2 \pm \sqrt{5})$ $m = -2 \pm \sqrt{5}$ OHOG y"-10y +25y=0 m2-10m+25=0 m2 - 5m - 5m + 25 =0 y= e, &= 10/2 (22 (2+15) x m(m-5) - 5(m-5) - 0 (m-5)(m-5) = 0 $(m-5)^{2} = 0$ m-5 = 0m = 5 Page No. y=C,e 5x+cze 5x sele Teacher's Signature





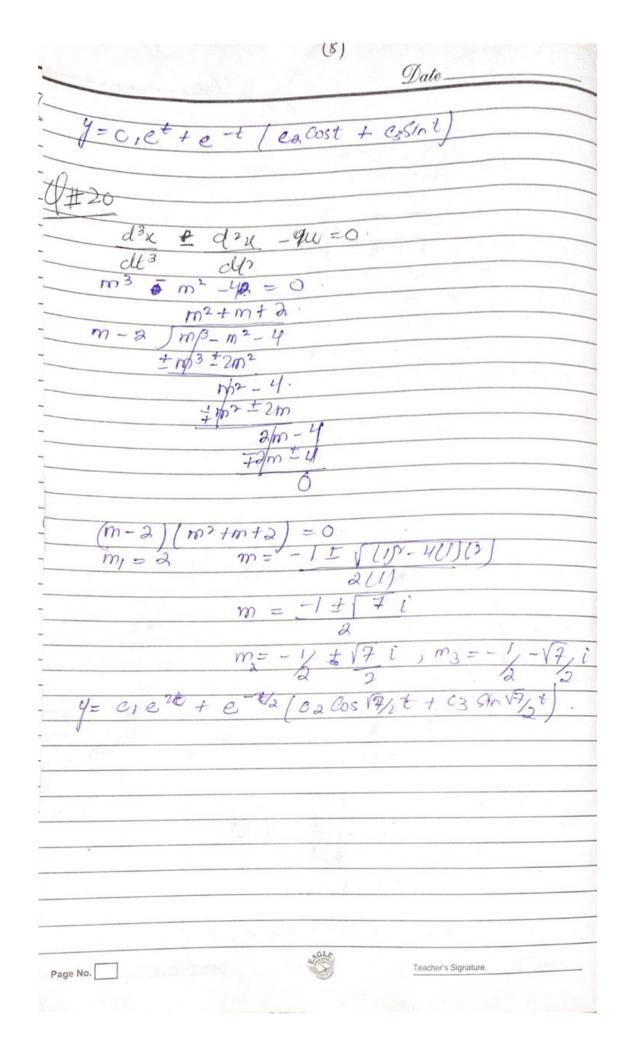


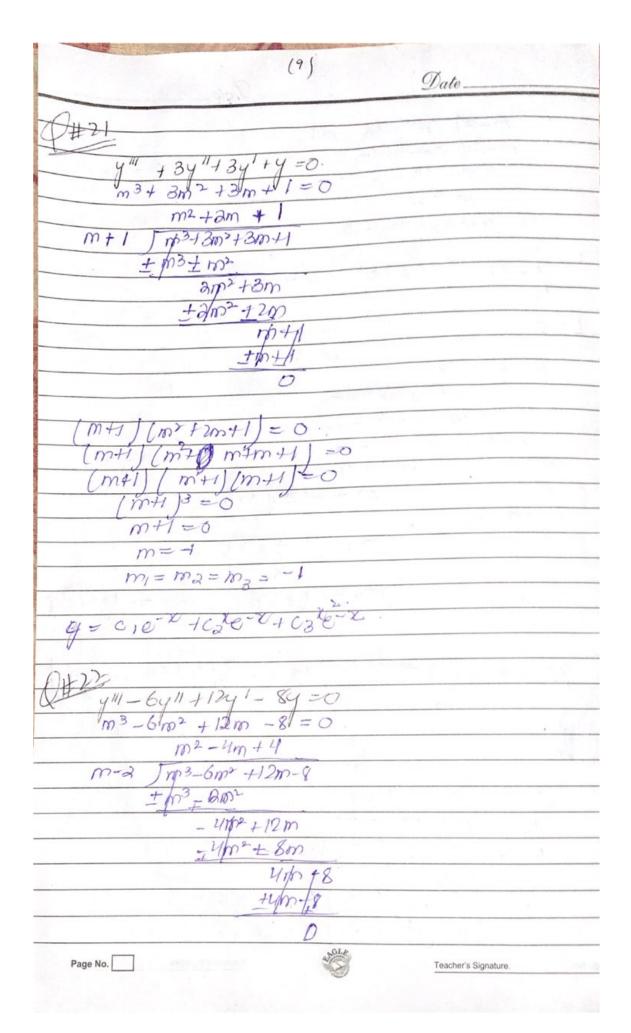
Date_ $(m^2 + m + 1) = 0$ $m = -1 \pm \sqrt{(1)^2 - 4(1)(1)}$ $m = -1 \pm \sqrt{3}$ i $m_a = -\frac{1}{12} + \sqrt{3}i$, $m_g = -\frac{1}{12} - \sqrt{3}i$ d=-1/2 , B= 13/0 y= c, ex + e-42 (c, cos 3/2 + c2 sin 3/x y''' - 5y'' + 3y' + 9y = 0 $m^{3} - 5m^{2} + 3m + 9l = 0$ (m+1) (m-6m+9)=0 m=3=0 m=3. $m_1 = -1$ $m_2 = m_3 = 3$. y= c1ex + Ge3x + C3e3x. age No. Teacher's Signature.

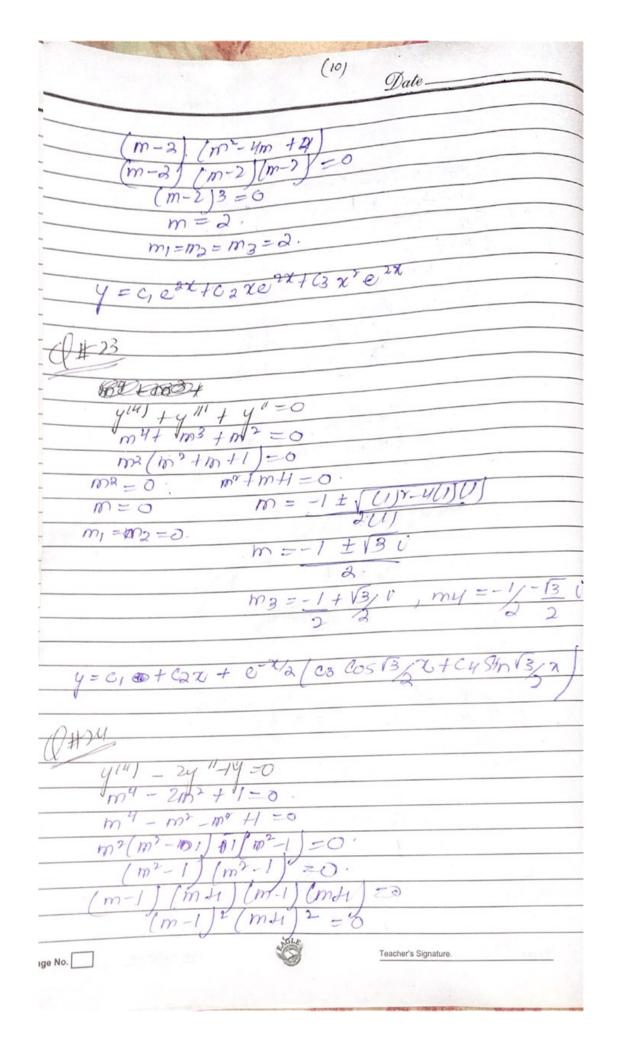
 $\frac{411 + 3411 - 441 - 14 = 0}{m^3 + 3m^2 - 4m - 12 = 0}$ $m^3 - 4m + 3m^2 - 12 = 0$ $m(m^2 - 4) + 3(m^2 - 4) = 0$ $(m^2 - 4)(m+3) = 0$ (m-2)(m+2)(m+3)=0 $m_1=02$, $m_3=-3$. y=c,exx+c2e-3x+c3e-3x. d3y + d'4 - 2w =0 $\frac{dt^{3}}{dt^{3}} \frac{dt^{3}}{dt^{3}}$ $m^{3} + m^{2} - 2 = 0$ m^2+2m+2 m-1 Jap3+m2-2 $\frac{\pm m^3 \pm m^2}{3m^2 + 3m}$ $\frac{\pm 3m^2 + 3m}{3m^2 + 3m}$ m-1 /m2+2m+2 =0. m=-2±1(2)-4(1)(2 $m_1 = 1$ m=-2+(3) $m_2 = -1 + i$ $m_3 = -1 - i$

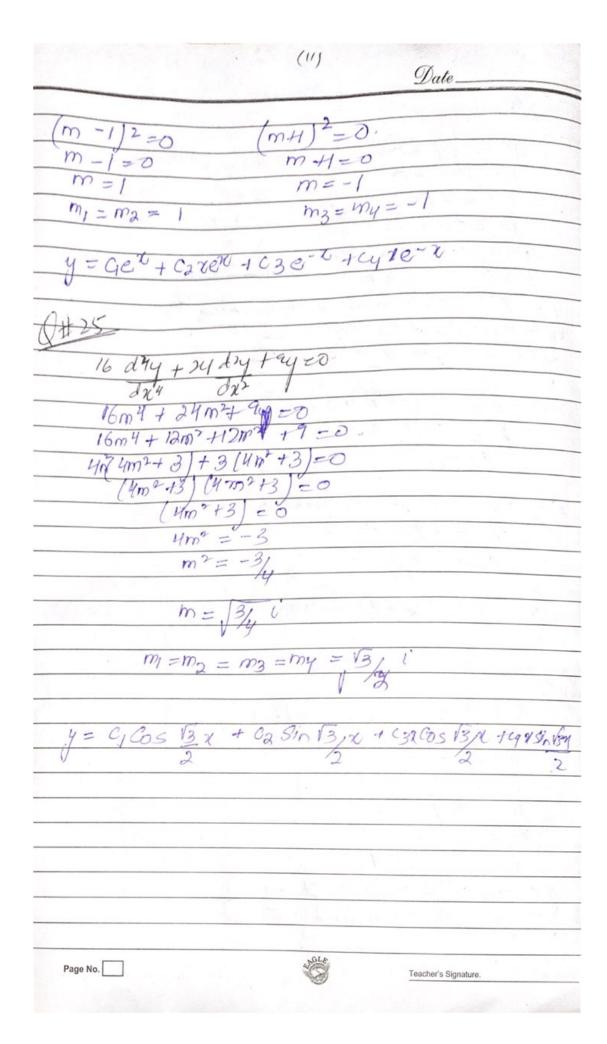
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(14) Date. 1 29 1" + 16y =0 , 4(0)=2, 4'(0)=-2 $m^{2} = -16$ $m = \pm 4i$ $m_{1} = 4i$ $m_{2} = -4i$ d = 0 g = -4i ()=) 2. = c1 (05 4 (0) + c2 8/n 4(0) 2. = c1 (1) + c2 (0) (3)=) -2 = @-40, 8in 4(0) + 402 eos 4(0) -2 = (0)0, +402 [1] C2=-0/4 = -1/2 y = a Cos42 - 1/ Sin42. d2y + y =0, y(T/3)=0, y'(T/3)=2 m2+1=0 m2 = -1 $m_1 = i$, $m_2 = -i$ 4=0 , B=1 y = e, cospo + Ca Sing - 0 y1 = - Cisino + Ca coso - 2 Teacher's Signature Page No.

