aus # 1) Willess Moor Lustala 1) 411+4=10) XX (e yx)" + e 9x=0 5-198+48 (y2e9x)+e9x=0 42+1=0 9,= e X 92=e-14 196=4(0)(X)+(2)in(X) 7,=cos(x) 42=sin(x) w= 19, 92 \ M'= -2 3 9 (x) 102 = 9,900 41=5-42 9(X) )X 45-22/2000 74 W= 1 cosch sinch = 1 (1 = 5-5, n(x) (05(x)) X NS = 2 (0) (0) (0) (0) 41= 1 (0530x)+C U2 = 5, n(x) - 35, not

20=4,4, + 1272 4== \frac{1}{3} (05 (x) (05 (x) + (5 in (0) - \frac{1}{3} 5 in \frac{3}{3} x) sin (9) 4= (1 (05 (x) + 62 sin (x) + \frac{1}{3} (05 (x) +

sin 2 (x) -\frac{1}{3} sin 4 (x)

QUIZ #7 MTH 225 NOOR MUSTERS 4 = 49 typ 2) 911+241+4=e-x/11x 911+241+4=0 4=e4x enx)"+2(enx)+enx 24x (47+29+1) =0 €4x ≠0 72+29+1=0 9- 2-1 VEUZ-4(DO) 7 = - 1 with multiplians of Z 99=(,e-x+(zxe-x 4p= 41.9, +4242 9(x)=e-x/n(x) w= | 9, 92 | 9,1 Uz= 7,9(A) N2 = Sy19(X) DX 41'= = 42 C9(X)  $\alpha_1 = \int \frac{-429(x)}{100} dx$ 41 = c-x  $y_z = e^{-X}X$ w= 4/42/-4/42

2) 
$$w = e^{-x}(-e^{x} + e^{-x}) - (-e^{-x})e^{-x}$$
 $w = e^{-2x}$ 
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 $w = e^{-x}(-e^{x} + e^{x}) - (-e^{x})e^{x}$ 
 $w = e^{-x}(-e^{x} + e^{x}) - (-e^{x})e^{x}$ 
 $w = e^{-x}(-e^{x})e^{x}$ 
 $w = e^{x}(-e^{x})e^{x}$ 
 $w = e^{x}$ 

Wood multafor) duretter) MTH 225)  $9 = 2e^{-x}x^{2}\ln(x) - 3e^{-x}x^{2}$  9 = 99 + 99  $9 = c_{1}e^{-x} + c_{2}xe^{-x} + 2e^{-x}x^{2}\ln(x) - 3e^{-x}x^{2}$  9 = 901 9 = 901 9 = 901 9 = 901