$$\frac{1}{\sqrt{1+2}} = -kx - \beta \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = 0$$

$$\frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \times \frac{$$

$$X(t) = (1 e^{-2\sqrt{z}t} + (2 e^{-2\sqrt{z}t}$$

(WITH 552) 502 # 3/ NOON) m dex + KX = fct) F=68 e-2+(0)4+ 2 2x +32x = 68e-5+ (0)=0 X(0) =0 X 11+16 X = 34e-2+ (05 (4+) 12+16=0 C=+4 Xh = (1 (0) 4 + (2 sin 4+ Xp=Ae-2+ cosa++Be-2+ sin4+ XP'= -ZAe-Et COSUT - 4Ae-Et SMUT - ZBe-Et-SMUH + 4Be-2+ cos4+ XP = 4Ae-st COS4+ +PAe-st sin4+ +8Ae-st sin4+ 16 Ae-2+ COS 4+ + 4Be-3+ SIN4+ -8 Be-2+ COS 4+ -8 Be-2+ cos 4+ - 16 Be-2+ sin 4+ 4Ae-2+ (054+ +8Ae-2+5,n4+ +8Ae-2+5,n4+ -18Ae-2+ Cos4) +4Be-st 4+-8Be-st cos4+-8Be-st cos4+-16Be-st, n4+ + 16 (Ae cosy++Be 2+ sinut) = 34e-2+ cos(4+)

X(t) = - = (054+ + = S,n4++=e cos4+-2e s,n4

3 NOUT MTH 225 QUIZH49 (A) No=48FI EF 245 = WCW) EIJUY = 48 EIN 249 = 48h 103 = 48W2 +C1 = 5403+C1 Juz = 2413 + C, w+cz = 803+C, w+Cz 411(0)=0 0- 0+0+(2 > (2=0 200 = 803+6, a 1 = 8 m + 4 m + 6 7=== N5+ CIU3 + C3W 0===+=+(3. +12+5(2+3063=0 411(1)=0 0=8+01 -8

3) NOON MTH 225 QUIZ#9

$$12+5(-8) +30 = 0$$

$$12-40 +30 = 0$$

$$30 = \frac{28}{30} = \frac{14}{15}$$

$$9 = \frac{2}{5}u^{5} - \frac{14}{3}u^{3} + \frac{14}{15}u$$

$$9 = \frac{2}{5}u^{5} - \frac{8}{3}u^{3} + \frac{14}{15}u$$

$$9 = \frac{2}{5}u^{5} - \frac{4}{3}u^{3} + \frac{14}{15}u$$

$$9 = \frac{2}{5}u^{5} - \frac{4}{3}u^{3} + \frac{14}{15}u$$

$$9 = \frac{2}{5}u^{5} - \frac{4}{3}u^{3} + \frac{14}{15}u$$

$$9 = \frac{1}{5}u^{5} - \frac{4}{3}u^{3} + \frac{14}{15}u$$

$$9 = \frac{1}{5}u^{5} - \frac{4}{3}u^{3} + \frac{1}{15}u$$

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3. 
$$\frac{2}{\sqrt{12}}$$
  $\frac{4}{\sqrt{13}}$   $\frac{1}{\sqrt{12}}$   $\frac{1}{\sqrt{12}}$