ME 460 Test 2 Solutions, Fa '09

p(f) term 34083 - 26996 (05(52,36t) 2,86 3,31×10,7-,2850d 8,93×10 8307,73/m(52,36+) 2,75×103 0.281 5.82×107, -1.8 rod 8.24×104 1416.7 (05 (04.721) -1.8 1,57×16-7, -2.74 9.14×10-4 3608.3 514 (104.72+) 2,10×103 -1.8 - 5833,3 cos (157,08t) 0,405 3,65 ×10-4 2333,351 (157,08t) -2.74

$$x(t) = 8.5 21 \times 10^{-3} + 8.93 \times 10^{-3} (05/52.36t - 2.86)$$

 $+ 2.75 \times 10^{-3} = \sin(52.36t - 0.281)$
 $+ 8.24 \times 10^{4} (05/04.75t - 1.8)$
 $+ 2.10 \times 10^{-3} = \sin(04.75t - 1.8)$
 $+ 9.14 \times 10^{-4} (05/157.08t - 2.74)$
note sign changes and $+ 3.65 \times 10^{-4} = \sin(157.08t - 2.74)$

$$\frac{1}{X(t)} = \frac{1}{100} \int_{0}^{1} 300T \sin(t-T) dT$$

$$\frac{1}{500} \int_{0}^{1} 300T \sin(t-T) dT$$

$$\frac{1}{500} \int_{0}^{1} 300T \sin(t-T) dT$$

$$\frac{1}{500} \int_{0}^{1} 300T \sin(t-T) dT + \frac{1}{50} \int_{0}^{1} (-300T) \sin(t-T) dT$$

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$$\frac{1}{500} \int_{0}^{1} 300T \sin(t-T) dT + \frac{1}{500} \int_{0}$$

