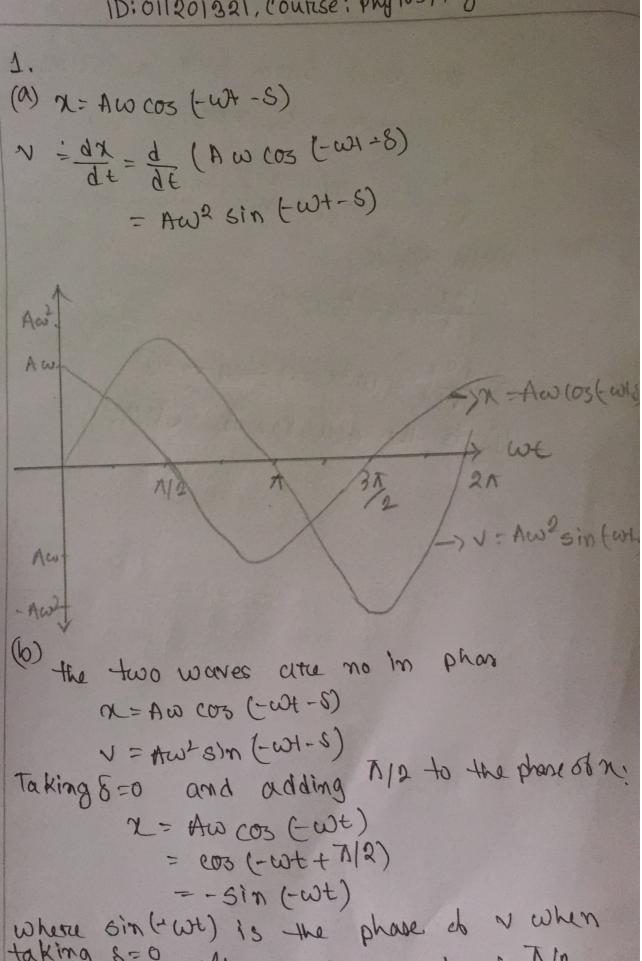
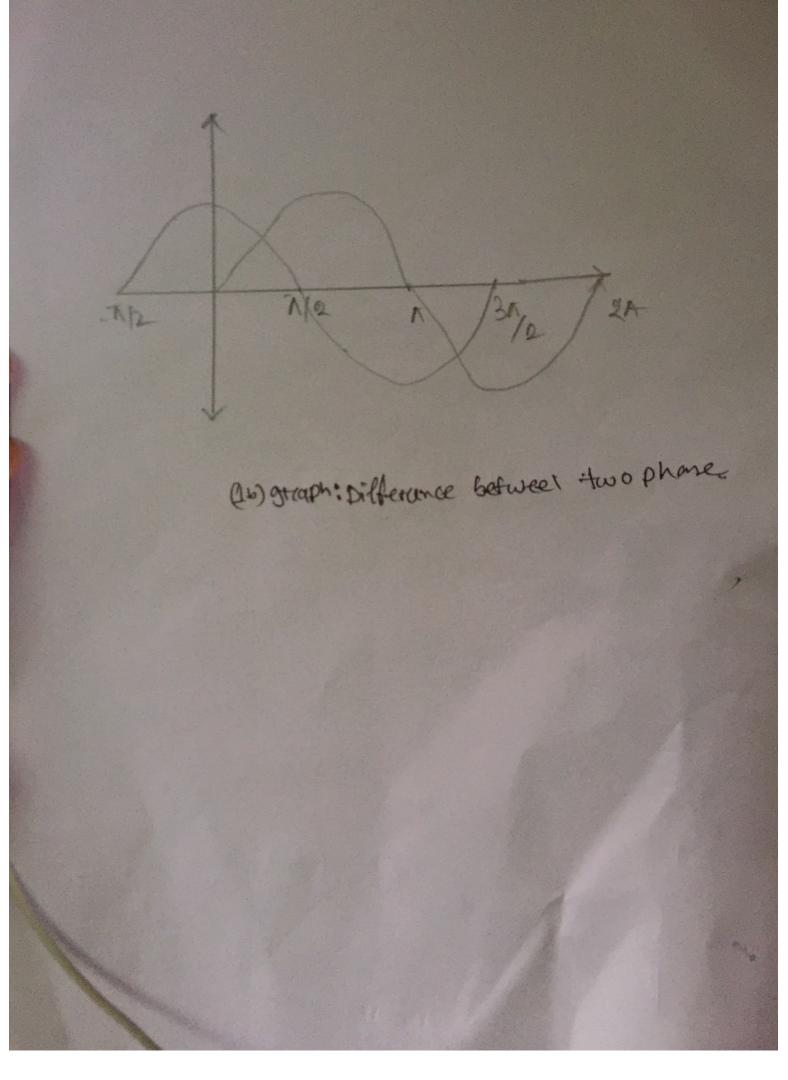
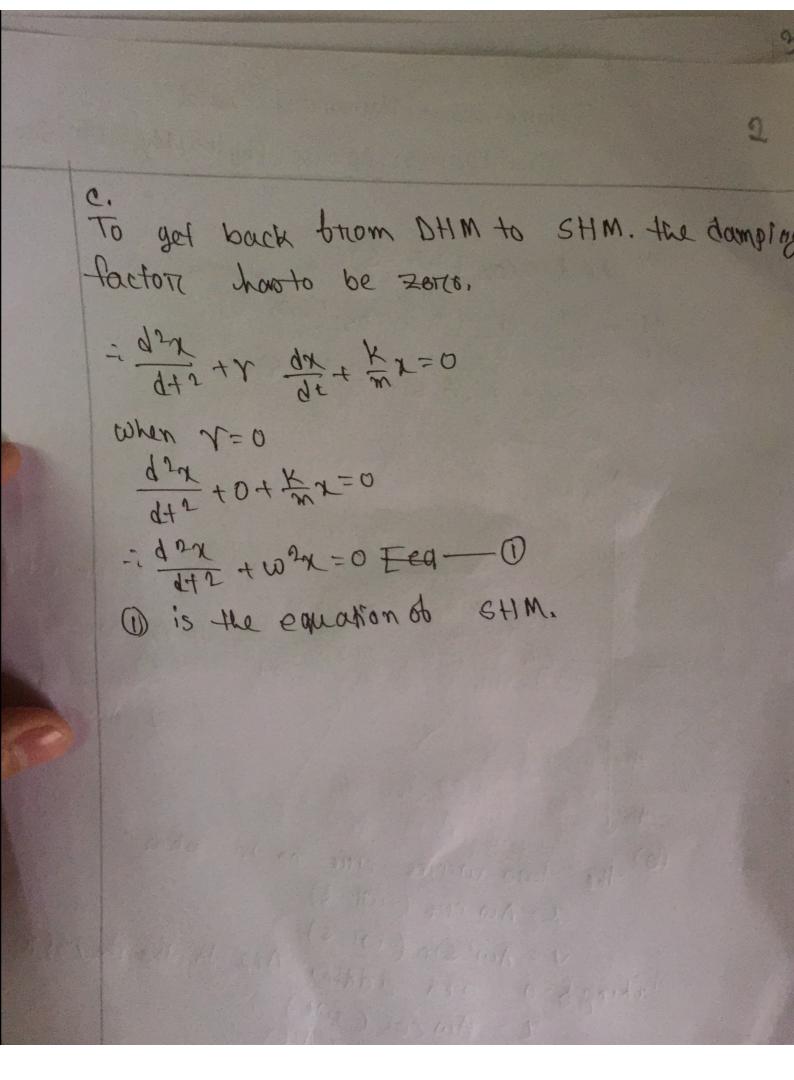
Name: Jubaer Muhammad Shufol 1 1D:011201321, Course: Phy 105/ Phy 2105, Sec: D



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(a) (1) amplitudes 10×10-3 = 5×10-3 m (11) ~ max = A W = 27f. A = 2 x 1x 120x 5 x 10 3 = 3.77 ms-1 (111) | a max = 1 A w2 | = 15x103x(RM)21 = 5x103x(2x3.1416x120)2 = 2842,46 ams2 (1v) E = 1 KA2 = = = x x x (3.77)2 = 49.75 7 = 8.75×10-5 1 Ke= 1 mv2 = fx0.5x w/A2-x2 = 1 x0,5 x 2 1 x 120 114.21-0.000004 = fx0.5x21x120x3.77 =710.56) (m)

(b)
$$m = 7000 \text{ m}$$
 $A = 30 \text{ cm}$ $T = 0.905$

$$= 0.7 \text{ kg} = 30 \text{ m} \cdot 2$$

$$W = \frac{2\pi}{T} = \frac{2 \times 9.1416}{0.80} = 7.05 \text{ teads}'$$

$$0 = 0.80 = 7.05 \text{ teads}'$$

$$0 = 0.20 = 7.85 = 7.22$$

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3. (a)
$$y = 10 \sin \left(10t - \frac{\pi}{6}x\right) = 10 \sin \frac{2\pi}{4} \left(\frac{10t - \pi}{6}x\right)$$

$$0 \text{ Amplitude} = 10 \text{ m}$$

$$0 \text{ V} = \frac{\pi}{6}$$

$$10 \sin \left(10t - \frac{\pi}{6}x\right)$$

$$= 10 \sin \frac{2\pi}{2} \left(\frac{10t - \frac{\pi}{6}x}{10t - \frac{\pi}{6}x}\right)$$

$$= 10 \sin \frac{2\pi}{2} \left(\frac{10t - \frac{\pi}{6}x}{10t - \frac{\pi}{6}x}\right)$$

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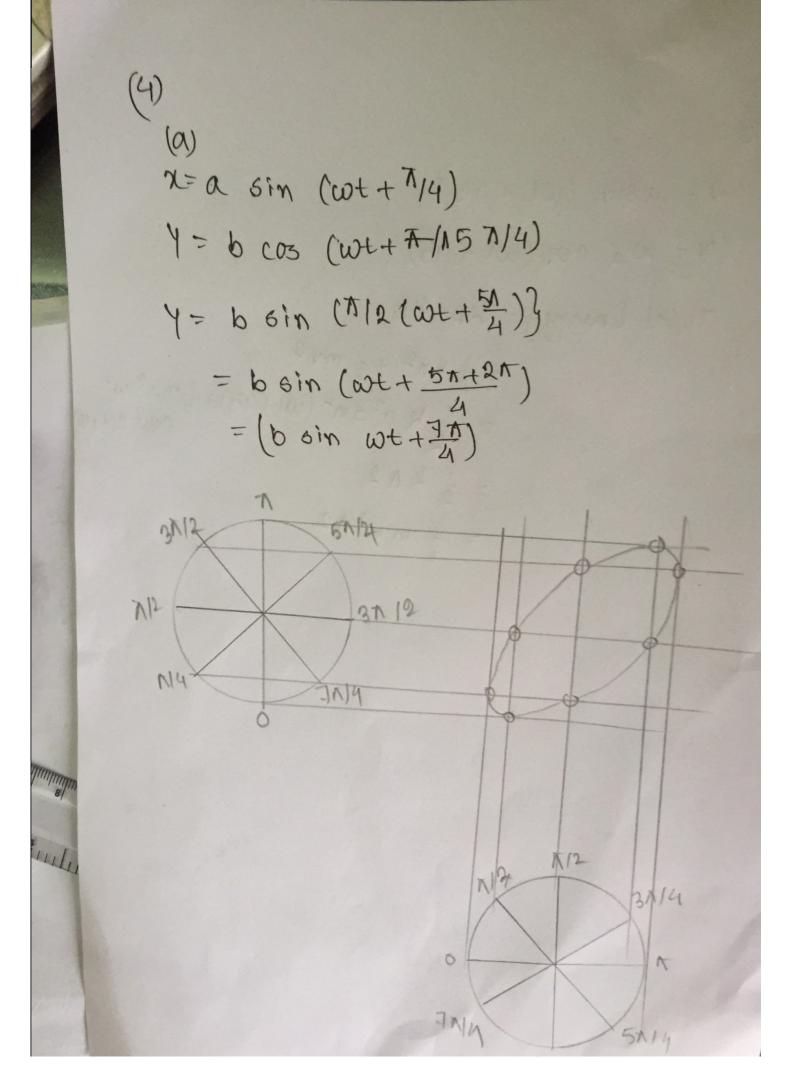
$$= 10 \sin \frac{\pi}{6} \left(\frac{10t - \frac{\pi}{6}x}{10t - \frac{\pi}{6}x}\right)$$

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$$= 10 \sin \frac{\pi}{6} \left(\frac{10t - \frac{\pi}{6}x}\right)$$

$$= 10$$

The atom Na has 11 proton and a 48 penny has = 4 x 6 x 1023 atom = 1.04 × 1023 atoms Total change = 11 x 1.04 x 10 23 x 1.6 x 10 19 = 1.8×105 C we know that, F= K mar = 1010 x (1-8 x 105) = 1.8304X1015 N (C) L=0.2 mH =0.2 X153 H R. =800 Q.D e= Im F = 1x10-3 F R2 800 4L - 4(0,2)2 FORD. Wo= Le = 0.02 × 103 × 1.×103 (2)2> wo , so its a sallatory, f= 4 (Tw,- (2)2) = 27 = 7.11×10-5,



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(4) (b) 2= asin (w++45) V= Wa co3 (w+ 45) Total Donnyy = Kp+KE = = = + = mn 2 = 1 k a25in2 (w+445)+5ma2w2 co32 (w+45) = 1 KA2