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1) DIK : M, = 4 Kg

M2 = 2 Kg

[= 0,12 kgm2

1, = 30 cm

L" = 50 cW

Die : a.) a, =?

92 : ?

b.) T, -?

72 : 7

c.) Ek .?

ionau katroi

73 . I = 73

R. . T. - R2. T3 = 0,12.d

0,3 (40+40)-0,2 (20+20) = 0,12.0

0,3 (40+1,2 d) -0,2 (0,4 d+20) = 0,12 d 15 401369 -0.889-A = 01159

= 0,86 a a = 14, 28 rad/52

a.) A, = 4,.8, = 14,28.0,3 = 4,28 m152 a2 = d2.R2

= 14,28 .0,2 = 2,86 m152,

b.) T, = 40 + 4.4.28 = 40 417,12

= 57,12 N/

T2 = 20 + 2 X 2, 86

= 25,72 N/

(.) Wt = Wo + db

= 0 +14,20,4

= 57,12 rad/s

Ex = 12.1.02

= 12.0112.57,12

= 195,8,

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Kuis Fisika 2

3.) Dik:
$$M_b$$
: 2kg
$$M_f$$
: 1kg
$$f$$
: 10 cm 1m

$$= \frac{0.2 \cdot 2 + 0.8 \cdot 1}{2 + 1}$$

$$= \frac{0.4 + 0.8}{3} = \frac{1.2}{3}$$

$$= \frac{1}{c} + 0.08 = \frac{50 + 24}{300} = 0.246$$

$$= \frac{1}{2} \cdot 1 \cdot (0.1)^2 + 1 \cdot (0.8)^2$$

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4.) A.) X, = 3 Im 271+

x2 = 4 sin (276+57/6)

x = A in (we + p)

= 144 + 24 COS 150°

A2 = 144 = 12 13

.. x = 1 144-1253 (05 (216 + 85,10)

b.) x = 4 005 10+

$$\phi = \phi_2 - \phi_1$$
 $= 0 - \pi$
 $= \frac{\pi}{2} = -\pi$

$$\sin^{2} \emptyset = \frac{y^{2}}{A^{2}y} - \frac{\lambda xy}{A_{x} A_{y}} \cos \emptyset + \frac{x^{2}}{A_{y}^{2}}$$

$$1 = \frac{y^{2}}{A^{2}} + 0 + \frac{x^{2}}{A^{2}}$$

$$1 = \frac{y^2}{Ay^2} \cdot 0 + \frac{x^2}{Ax^2}$$

$$\frac{1}{5^2} \cdot \frac{y^2}{5^2}$$

$$1 = \frac{y^{2}}{5^{2}} + \frac{x^{2}}{4^{2}}$$

$$1 = \frac{y^{2}}{25} + \frac{x^{2}}{16}$$

2.) Dik : m = 909

$$A^{2} : A_{1}^{2} A_{2}^{2} + 2A_{1}A_{2} \cos (\Phi_{2} - \Phi_{1})$$

$$: 3^{2} \cdot 4^{2} + 2 \cdot 3 \cdot 4 \cot (\frac{57}{6})$$

$$: 144 + 24 \cot (\frac{57}{6})$$

$$= 144 + 24 \cot (\frac{57}{6})$$

$$= 144 + 24 \cot (\frac{57}{6})$$

$$A^{2} : 144 + 24 \cot (\frac{1}{2} \sqrt{3})$$

$$A^{2} : 144 + 2 \cdot \sqrt{3}$$

$$A : \sqrt{144 - 12\sqrt{3}}$$

$$A : \sqrt{144 - 12\sqrt{3}}$$

$$= 3 \cot (\frac{1}{3} - 2\sqrt{2})$$

$$= 3 \cot (\frac{1}{3} - 2\sqrt{2})$$