Harm Schw 2

$$A8: 60 \text{ $90 = 27 \text{ cm} $W = 217 \text{ H}} = 0.73 \text{ $1/5}$$

(a) 38 cm 4.3 Hz 0.37 4/5

1)
$$f = \frac{\omega}{2\pi} = \frac{1}{2\pi} \left[\frac{D}{m} \right] D = 4\pi^2 f^2 m = 4\pi^2 \cdot (4,642)^2 \cdot 2,43 \frac{1}{2} = 2,0 \frac{KN}{m}$$

F= m. a = (-) D, yo = (-) An2f2m, yo = 472, (4,642)2, 2, 42kg, 0,025m = 51 N

2)
$$4\pi^{2}f^{2}y_{0} \leq g$$
 $f \leq \boxed{\frac{9}{4\pi^{2}y_{1}}} = \frac{1}{2\pi}\sqrt{\frac{9}{y_{0}}} = \frac{1}{2\pi}\sqrt{\frac{9.81\%_{52}}{1.0^{-3}m}} = 15.76 \text{ Hz}$

3)
$$f = \frac{25}{60s}$$
 $W = \sqrt{\frac{0}{m}} = 0$ $M = \frac{D}{w^2} = \frac{D}{4\pi^2 f^2} = \frac{25 \, \text{M/m}}{4\pi^2 (\frac{25}{60s})^2} = 3,65 \, \text{Mpc}$

4)
$$\pm k = \frac{1}{2} m \left[y_0 \text{ W sin} \left(\frac{2\pi}{1}, \frac{1}{8} \right) \right] = \frac{m}{2} y_0^2 \frac{4\pi^2}{1^2} \sin^2 \left(\frac{\pi}{4} \right) = \frac{0.15 \text{ M}}{2}, \frac{(0.1 \text{ m})^2 \cdot 4\pi^2}{45} \sin^2 \left(\frac{\pi}{4} \right) = 12,3$$

$$\pm pot = \frac{1}{2} D \text{ y} \left(\frac{1}{8} \right)^2 = \frac{m \text{ w}^2}{2}, \cos^2 \left(\frac{2\pi}{1}, \frac{1}{8} \right) = \frac{m}{2}, \frac{4\pi^2}{1^2} \cos^2 \left(\frac{\pi}{1} \right) = 12,3 \text{ m}$$

Broj = BK+ F = 24,6 m)

5)
$$\pm x = \frac{1}{2} \pm p_{of} = 3$$
 $\pm p_{of} = \frac{1}{2} \pm p_{of} + \pm p_{of} = \frac{3}{2} \pm p_{of}$
 $\frac{1}{2} \times y_{o}^{2} = \frac{3}{24} \cdot \times y^{2}$ $y_{o} = y_{o} / \frac{3}{2} = 30 \text{ cm}$, $\sqrt{\frac{3}{2}} = 37 \text{ cm}$

$$y = \frac{y_0}{2} = \frac{F_K}{F_{TOT}} = 1 - \frac{\frac{y_0}{2}}{\frac{y_0}{2}} = 1 - \frac{1}{4} = \frac{75\%}{6}$$

$$y(4.85) = y_0 e^{-\frac{261452}{41350}} = 1.5148 \qquad \int = \frac{\ln 2}{T_{1/2}}$$

$$y(4.85) = y_0 e^{-\frac{\ln 2}{425}}, 4.85 = 0 \qquad y_0 = y(4.65), e^{-\frac{\ln 2}{115}}, 4.65 = 32 \text{ cm}$$

$$\frac{\text{Frotz}}{\text{Frotz}} = \frac{\frac{1}{2} D \, 9 \left(\frac{4.85}{100} \right)^2}{\frac{9 \, 4.85}{100}} = \frac{94181}{\frac{94185}{100}} = \frac{2 \, 6412.4185}{1000} = \frac{2642.4185}{1000} = \frac{57\%}{1000}$$