

Nama : Andri Firman Saputra

Fisika Dasar 2

NIM : 201011402125

No  
Date

1. Gerak Harmonik

$$m_1 = 1 \text{ kg} \rightarrow T_1 = 2 \text{ s}$$

$$m_2 = 4 \text{ kg} \rightarrow T_2 = ?$$

$$T = 2\pi \sqrt{\frac{m}{k}}$$

$$\frac{T_2}{T_1} = \frac{2\pi \sqrt{\frac{m_2}{k}}}{2\pi \sqrt{\frac{m_1}{k}}} = \sqrt{\frac{m_2}{m_1}}$$

$$\frac{T_2}{2} = \sqrt{\frac{4}{1}}$$

$$\frac{T_2}{2} = 2$$

$$T_2 = 2 \cdot 2$$

$$T_2 = 4 \text{ s.}$$