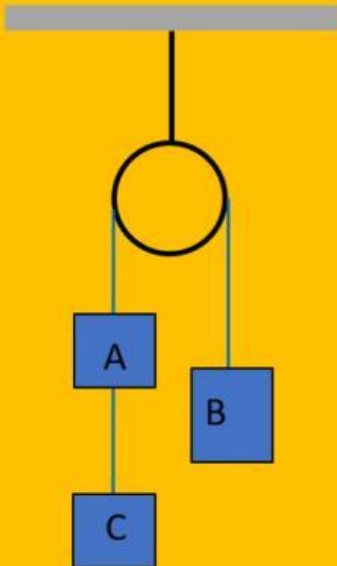


DINAMIKA GERAK

Pada katrol

Buatlah diagram bebas (gaya-gaya yang bekerja) pada sistem katrol di samping pada buku kalian masing-masing. Kemudian, lengkapi jawaban di bawah ini !



$m_A = 4\text{kg}$
 $m_B = 15\text{kg}$
 $m_C = 6\text{kg}$
 $g = 10\text{m/s}^2$

$a = ?$

T antara benda A dan C = ?

T pada benda B = ?

$$\sum F_{\text{sistem}} = m_{\text{sistem}} a$$

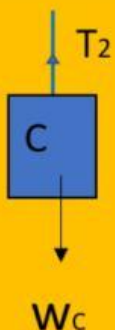
$$w_B - w_A - w_C - T_1 + T_1 + T_2 - T_2 = (m_A + m_B + m_C) a$$

$$w_B - w_A - w_C = (m_A + m_B + m_C) a$$

$$- - = a$$

$$= a$$

$$a = \text{m/s}^2$$

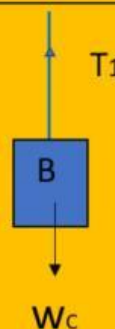


$$\sum F = m_C a$$

$$T_2 - w_C = m_C a$$

$$T_2 = m_C a + w_C$$

$$T_2 = \text{N}$$



$$\sum F = m_C a$$

$$w_B - T_1 = m_B a$$

$$T_1 = w_B - m_B a$$

$$T_1 = \text{N}$$