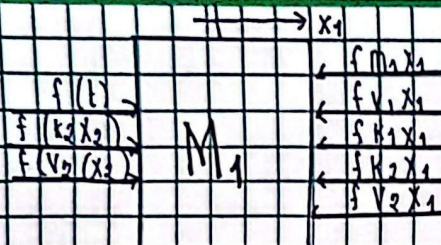


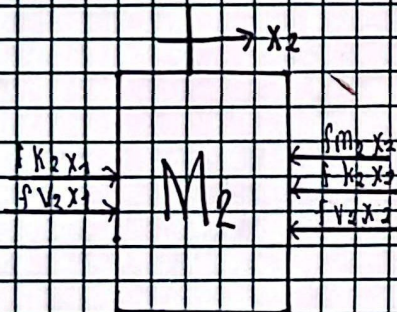
## LABORATORY 2



$$f(t) = f m_1 \ddot{x}_1 + f k_1 x_1 + f v_1 \dot{x}_1 + f k_2 x_1 + f v_2 \dot{x}_2 - f k_2 x_2 - f v_2 \dot{x}_2$$

$$f(t) = m_1 \ddot{x}_1 + k_1 x_1 + v_1 \dot{x}_1 + k_2 x_1 + v_2 \dot{x}_2 - k_2 x_2 - v_2 \dot{x}_2$$

$$\ddot{x}_1 = \frac{1}{m_1} [f(t) - B_1 \dot{x}_1 - B_2 (\dot{x}_1 - \dot{x}_2) - k_1 x_1 + k_2 (x_2 - x_1)]$$



$$0 = f m_2 \ddot{x}_2 + f k_2 x_2 + f v_2 \dot{x}_2 - f k_2 x_1 - f v_2 \dot{x}_1$$

$$0 = m_2 \ddot{x}_2 + k_2 x_2 + B_2 \dot{x}_2 - k_2 x_1 - B_2 \dot{x}_1$$

$$\ddot{x}_2 = \frac{1}{m_2} [k_2 (x_1 - x_2) + B_2 (\dot{x}_1 - \dot{x}_2)]$$

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