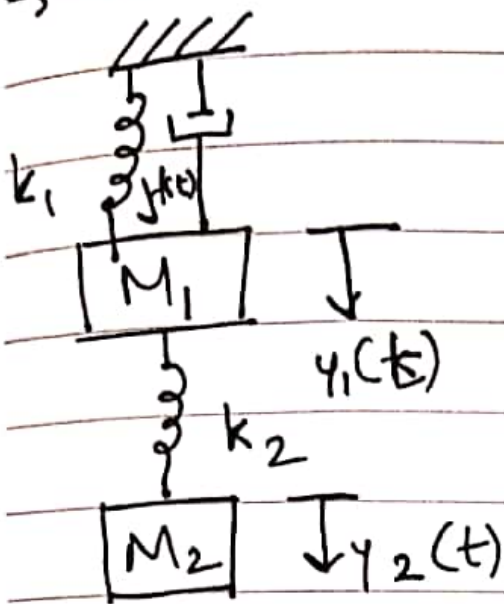


Chitrangada

Date _/ _/ _

Q.1)



FBD

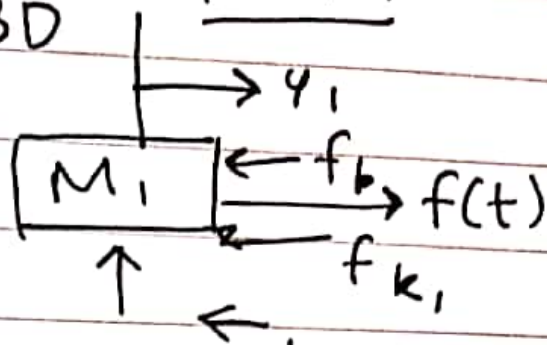


FIG 1

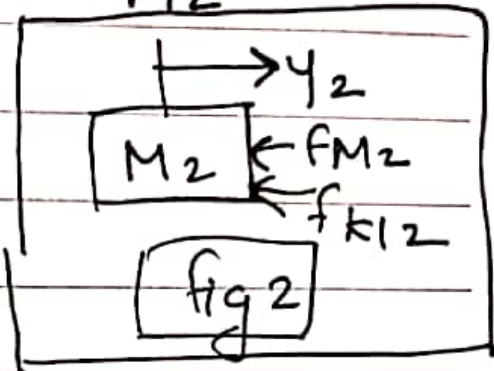


fig 2

FIG 1

$$f_{M1} = M_1 \frac{d^2 y_1}{dt^2}$$

$$f_{M2} = M_2 \frac{d^2 y_2}{dt^2}$$

$$f_b = b \frac{dy_1}{dt}$$

$$f_{k12} = k_{12}(y_2 - y_1)$$

$$f_{k1} = k_1 y_1$$

$$f_{k2} = k_{12}(y_1 - y_2)$$

$$f(t) = M_1 \frac{d^2 y_1}{dt^2} + b \frac{dy_1}{dt} + k_1 y_1 + k_{12}(y_1 - y_2)$$

$$0 = M_2 \frac{d^2 y_2}{dt^2} + k_{12}(y_2 - y_1)$$

MON TUE WED THU FRI SAT SUN