

First, we verify that negative feedback is present According to the summing - Point constraint:

$$\dot{v}_1 = \frac{v_1}{R_1} = \frac{v_1}{lok \Omega}$$

$$\dot{v}_2 = \dot{v}_1 = \frac{v_1}{lok \Omega}$$

$$V_m = 0$$

Kel:

$$\dot{v}_5 = \dot{v}_3 + \dot{v}_4 = \frac{V_3}{R_3} + \frac{V_2}{R_4} = \frac{-2V_1}{10 \, \text{kg}} + \frac{V_2}{10 \, \text{kg}}$$

Kul: