

$$l_g = 0,45^2 \cdot 30 \text{ kg}$$

$$\rightarrow H_0 + Mdt = H_0$$

$$0 + 50 \text{ N} \cdot 0,3 \text{ m} + F_a \cdot 0,9 \cdot 4 = 6,075 \text{ J}$$

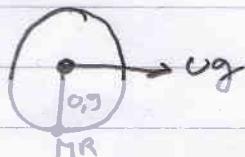
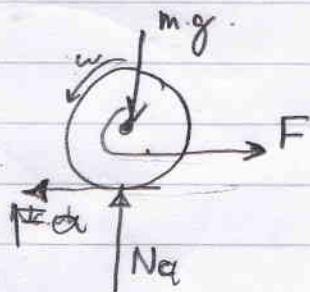
$$-60 + F_a \cdot 3,6 = 6,075 \text{ J}$$

$$\rightarrow H_0 + Fdt = H_0$$

$$m v_{g1} + \int Fdt = m v_{g2}$$

$$" + \cancel{H_0} - F_a \cdot 4 + 50 \text{ N} \cdot 4 = 30 \text{ kg} \cdot W \cdot R$$

$$-F_a \cdot 4 + 200 \text{ N} = 30 \text{ kg} \cdot W = F_a \cdot 200 \text{ N} = 27 \text{ W}$$



$$\uparrow m v_{g1} + \int Fdt = m \cdot v_{g2}$$

$$0 + N_a \cdot 4 - m \cdot g = m \cdot v_{g2}$$

$$v_{g2} = 0$$

$$N_a \cdot 4 - 300 \text{ N} = 30 \text{ kg} \cdot 0,9$$

$$N_a \cdot 4 - 300 \text{ N} = 0$$

$$N_a = \underline{300 \text{ N}} = 75 \text{ N}$$

$$-60 + F_a \cdot 3,6 = 6,075 \text{ J}$$

$$-60 + F_a \cdot 3,6 = 6,075 \text{ J}$$

$$120 \text{ N} - F_a \cdot 4 = 24,3 \text{ W} \quad 120 \text{ N} - F_a \cdot 4 = 27 \text{ W} \times 0,9$$

$$120 \text{ N} - 0 = 30,375 \text{ W}$$

$$\frac{120 \text{ N}}{30,375} = 3,95 \text{ m/s}$$