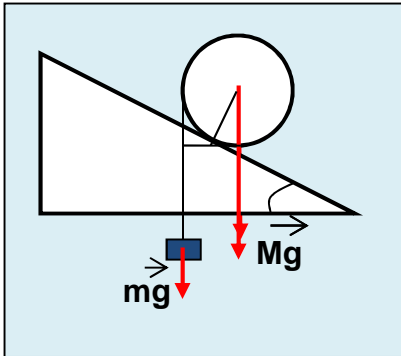
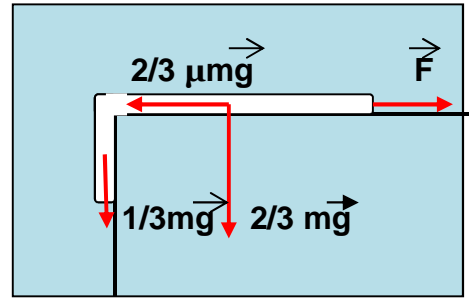


2.

$$F = 2/3 \mu mg + 1/3 mg; \mu \geq \frac{3F-m}{2m}; \mu \geq \frac{1-1}{2}; \mu \geq 0,25$$

: $\mu \geq 0,2$



3. $d_1 = R \sin$
 $d_2 = R - R \sin = R(1 - \sin)$
 $MgR \sin = mgR(1 - \sin)$

$$m > \frac{M \sin \alpha}{1 - \sin \alpha}$$

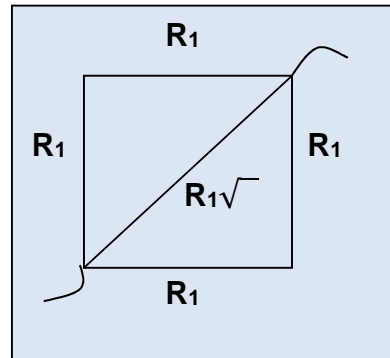
: $m > \frac{M \sin \alpha}{1 - \sin \alpha}$

4.

$$R_1 = \frac{\rho}{S} = \frac{4\rho}{\pi d^2} = \frac{4 \cdot 2,8 \cdot 10^{-8} \cdot 0,2}{3,14 \cdot 1 \cdot 10^{-8}} = 0,0446 \text{ Ом}$$

$$R = \frac{R_1 \cdot R_1 \sqrt{2}}{R_1(1 + \sqrt{2})}; R = \frac{0,0446 \cdot 1,41}{2,41} = 0,026 \text{ Ом.}$$

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5.

$(\rho = 1000 \text{ / } ^3),$

$(m = \rho V).$