

F-128 – Física Geral I

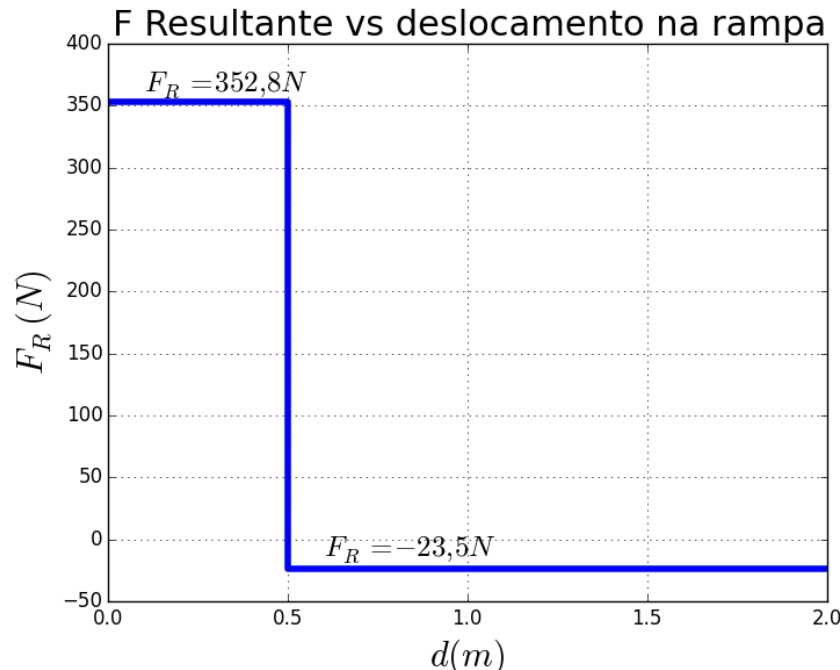
Aula exploratória 06

- respostas -

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Q1.



c)

$$V_{\text{final}} = 2.16 \text{ m/s}$$

b)

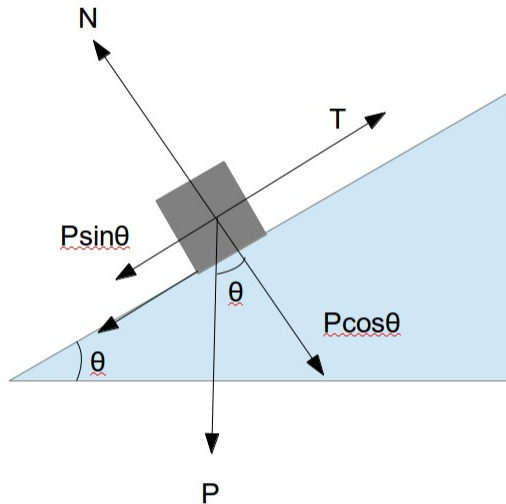
Trab\Perc	Percurso 1	Percurso 2	Total
W_g	176.4 J	529.2 J	705.6 J
W_{at}	0 J	-564.5 J	-564.5 J
W_n	0 J	0 J	0 J

$$K = 141.1 \text{ J}$$

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Q2.

a)



b)

$$W_g = - 381376 \text{ J}$$

$$W_{at} = - 218466 \text{ J}$$

$$W_N = 0 \text{ J}$$

c)

$$P = - 16572 \text{ W}$$

A potência fornecida pelo guindaste é 16572 W.

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Q2.

a) $W_g = mg(h+d)$

b) $W_{el} = - kd^2/2$

c) $d = 0.1934 \text{ m}$