

$$V_{1y} = V_{2y}$$

$$V_{1x} = -V_{2x} - V_{2y}$$

$$\Delta p = 2mV_{2x} = -2mV_{1x}$$

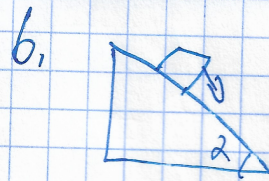
$$\Delta p = F_{cp} \cdot t$$

$$t = \frac{2mV_{1x}}{F_{cp}} = \frac{-2mV_{1x}}{F_{cp}}$$

$$= \frac{2 \times 6 \times \frac{1}{2} \times 0.15}{20}$$

$$= \frac{0.9}{20}$$

$$= 0.045 \text{ s}$$



$$a = g \sin \alpha - \mu g \cos \alpha$$

$$\mu = r x$$

$$\Rightarrow a = g \sin \alpha - g r x \cos \alpha$$

скорость определена  
нулем то  $x$ :

$$V = g \sin \alpha x - \frac{1}{2} g r \cos \alpha x^2$$

куда  $a = 0$

$$x = 0 \text{ (нет)}$$

или

$$x = \frac{2 \sin \alpha}{r \cos \alpha} \text{ (ответ)}$$

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