

Name: _____
Period: _____

Quadratic Real-World Exit Ticket 5

1. The height, h , in feet of an object above the ground is given by $h(t) = -16t^2 + 64t + 190$, $t \geq 0$, where t is the time in seconds. Find the time it takes the object to strike the ground and find the maximum height of the object.

Cornell Notes

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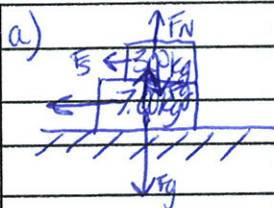
Date 10-31-2011

Topic Physics

Class/Subject Fragsos Per 4

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HW



a) 3-kg block

$$F_{g_3} = (3\text{ kg})(9.81\text{ m/s}^2) = 29.43\text{ N}$$

$$F_{g_7} = (7+3\text{ kg})(9.81\text{ m/s}^2) = 98.1\text{ N}$$

$$b) \mu_k = \frac{F_k \text{ max}}{F_N}$$

$$F = F_k = (M_{3+7})a + F_k \\ = (7\text{ kg} + 3\text{ kg})(5\text{ m/s}^2) + F_k \\ = (10\text{ kg})(5\text{ m/s}^2) + 34.3\text{ N}$$

$$0.35 = \frac{F_k \text{ max}}{98.1\text{ N}}$$

$$F = 84.3\text{ N}$$

$$34.3 = F_k \text{ max}$$

$$c) \mu_s = \frac{F_s}{F_N} = \frac{15\text{ N}}{(9.81)(3)} = 0.51$$

$$F_s = m \cdot a \rightarrow = 3\text{ kg}(5\text{ m/s}^2)$$

$$F_s = 15\text{ N}$$

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Do vocab for Chapter 5

Do all vocab for Chapter 5