Physics 101Rec Quiz#3 Chapter 4c

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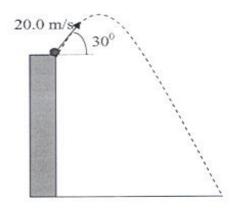
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tione is thrown from the top of a building upward at an angle of 30.0° to the horizontal and with initial speed of 20.0 m/s as shown in the figure. The ball hits the ground after 4.22 sec in flight.

(a) How high is the building?

$$y-y_0 = royt - \frac{1}{2}gt^2$$

= $royt - \frac{1}{2}gt^2$



(b) What is the y-component of the velocity (v_y) of the stone just before it hits the ground?

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