A rock is thrown up from the edge of a 275 m high cliff at 25.4 m/s. (a) What is its final velocity when it hits at the base of the cliff? (b) How long is it in the air? (A diagram will help.)

$$V_{y_{1}}^{2} = 25.4\%$$

$$V_{y_{2}}^{2} = 25.4\%$$

$$V_{y_{3}}^{2} = \sqrt{25.4\%}$$

$$V_{y_{3}}^{2} = \sqrt{25.4\%}$$

$$V_{y_{3}}^{2} = \sqrt{25.4\%}$$

$$V_{y_{4}}^{2} = \sqrt{25.4\%}$$

$$V_{y_{5}}^{2} = -77.7\%$$

$$V_{y_{5}}^{2}$$

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A rock is thrown down from the edge of a 165 m high cliff at 35.2 m/s. (a) What is its final velocity when it hits at the base of the cliff? (b) How long is it in the air? (A diagram will help.)

$$V_{y}^{2} = -165m$$

$$V_{y}^{2} = -35.2\frac{\pi}{3}$$

$$V_{y}^{2} = -35.2\frac{\pi}{3}$$

$$V_{y}^{2} = -9.8\frac{\pi}{3}$$

$$V_{y}^{2} = -66.9\frac{\pi}{3}$$

$$V_{y}^{2} = -66.9\frac{\pi}{3}$$

$$V_{y}^{2} = -46.9\frac{\pi}{3} - (-35.2\frac{\pi}{3})$$

$$V_{y}^{2} = -66.9\frac{\pi}{3} - (-35.2\frac{\pi}{3})$$