

6	<p data-bbox="1493 8 2844 112">A is the correct answer</p> <p data-bbox="1493 303 4978 434">B is incorrect because $E_k \propto v^2$ or $v \propto \sqrt{E_k}$ if $2E_k$ then $v_{\text{new}} = \sqrt{2}v$</p> <p data-bbox="1493 477 4978 607">C is incorrect because $E_k \propto v^2$ or $v \propto \sqrt{E_k}$ if $2E_k$ then $v_{\text{new}} = \sqrt{2}v$</p> <p data-bbox="1493 651 4978 781">D is incorrect because $E_k \propto v^2$ or $v \propto \sqrt{E_k}$ if $2E_k$ then $v_{\text{new}} = \sqrt{2}v$</p>	1
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