

8	<p><b>B is the correct answer as, for a uniform wire, the ratio of distances AS:SB is the same as the ratio <math>R_1:R_2</math>, and distance AS = <math>y</math>, distance SB = <math>x-y</math></b></p> <p>A is not the correct answer as <math>x</math> is not the distance SB</p> <p>C is not the correct answer as <math>y</math> is not the distance SB</p> <p>D is not the correct answer as the ratio <math>x/y</math> is equivalent to the ratio <math>(R_1+R_2)/R_1</math></p>	(1)
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