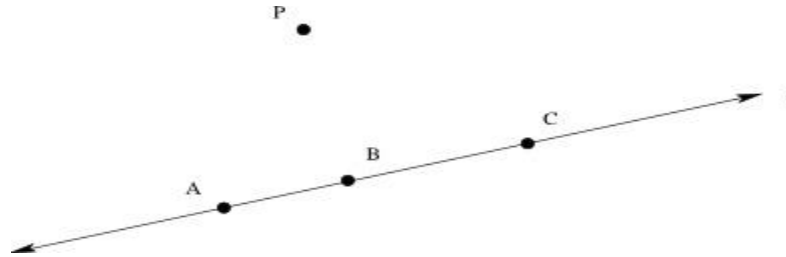


Dilating a Line

Suppose we apply a dilation by a factor of 2, centered at the point P, to the figure below. Locate the images A' , B' , C' of the points A, B, C under this dilation.



What is the relationship between the distance $A'B'$ and the distance AB ? Justify your answer in writing.