

Interesting Coplanar Locations (2)

- 1) In the applet on your screen, you'll notice a segment with endpoints A and B and a slider with name r .
- 2) Use the tools of the limited toolbar to construct the perpendicular bisector of \overline{AB} .
- 3) Use the **Point on Object** tool to plot a point D that lies on this perpendicular bisector.
- 4) Now use the **Distance** tool to measure and display the values of the distances DA and DB .
- 5) Move point D along this perpendicular bisector. What do you notice about DA and DB ?

- 6) Based upon your observation in (5), we can conclude that D is _____ from A and B .

- 7) Thus, if a point lies on the _____ of a _____, then that point is _____ from the _____ of that _____.

- 8) How does this theorem (in 7) compare with the theorem you discovered in the **Interesting Coplanar Locations (1)** activity (previous lesson)?

