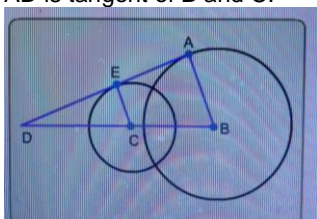


Answer on Question #48882 – Math – Geometry

AD is tangent of B and C.



DB= 25, AD=20, and AE=16. BC - ?

Solution

We get the two triangles ABD and ECD, that are similar (these triangles are right, angles EDC and ADB are equal), so
 $DB/DC = AD/DE$.

$$DB/(DB - BC) = AD/(AD - AE)$$

$$25/(25 - BC) = 20/(20 - 16)$$

$$5*(25 - BC) = 25$$

$$BC = 20$$