

1)

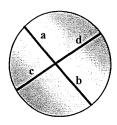
Analytic Geometry Chapter 6.6

Secant and Tangent Segment Measures



2)

Type 1: Two chords intersect INSIDE the circle



ab = cd

part • part = part • part

3)

Example 1:

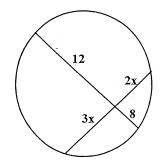






4)

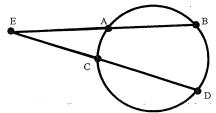
Example 2: Find x



5

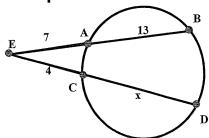
Tyne 9. Two secants intersect

OUTSIDE the circle



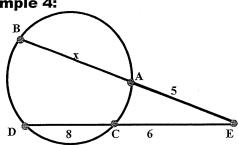
EA * EB = EC * EDoutside • whole = outside • whole

Example 3:



7)

Example 4:



Secant Segment

External
Segment

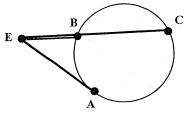
Property Co.

Notice that on the tangent segment, the outside is the whole!



9)

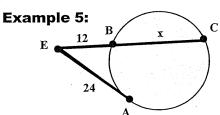
Type 2 (with a twist): Secant and Tangent



outside • whole = outside • whole

 $EA^2 = EB * EC$

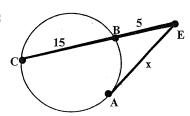
10)



outside • whole = outside • whole

11)

Example 6:



outside • whole = outside • whole

12

What you should know by now...

outside • whole = outside • whole