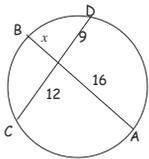


§9-7 Special Segments in a Circle

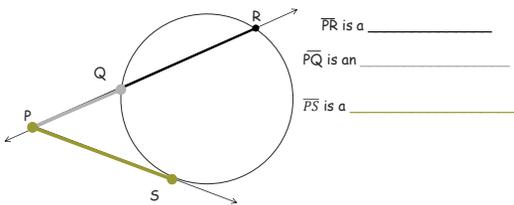
Theorem

For any 2 chords that intersect in a circle, the product of the parts of the first chord is equal to the product of the parts of the second chord.

Example 1: Find the value of x .



Definitions



Theorem

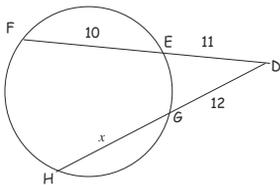
For any 2 secant segments that share an external endpoint, the product of the external secant segments and their corresponding secant segments are equal.

Theorem

For any secant segment and tangent segment that intersect outside a circle...

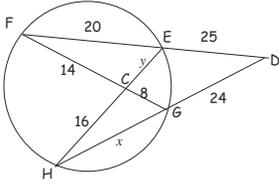
Example 2

Find the value of x .



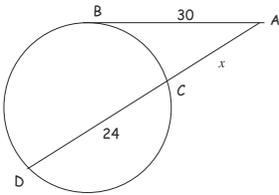
Check Point

Find the values of x and y (leave as a mixed number where necessary).



Example 3

Find the value of x .



On your own...

Find the value of x .

