## Angles and Arcs formed by Intersecting Chords

www.mathwarehouse.com/geometry/circle/angles-of-intersecting-chords-theorem.php

Circle Formulas and Links: http://www.mathwarehouse.com/geometry/circle/

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Angle of Intersecting Chords

X =



В

С

D

## Problems

1) What is X?





## 2) m $\angle a = 80^{\circ}$ , and arc HIJ = 70°

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**3**) The ratio of arc QRS to arc TUV is 2:3 and  $m \angle x = 90^{\circ}$ , what is the measure of arc QRS and arc TUV?



**4**) What is  $m \angle AEB$  and  $m \angle CED$ ?



5) AD is a diameter arc ABC: arc CD: arc DFG : AG is 2 : 3: 1 : 4. What is X?



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6)  $\angle AGC = 30^\circ$ , DFG = 70 ° what is m  $\angle x$ ?°



7) Measure of arc EFG =  $100^{\circ}$  and arc HIJ =  $110^{\circ}$ , what is m  $\angle x$ ?



8)  $m \angle KHM = 50$ ,  $m \angle JMH = 45$ , what is  $m \angle x$ ?





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