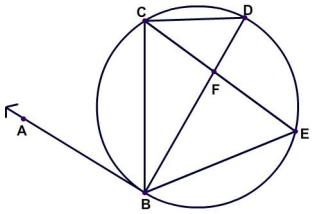
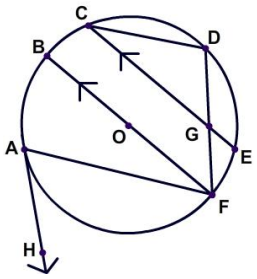
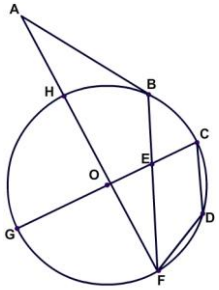
Mixed Review on Formulas & Theorems on Geometry of Circles







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

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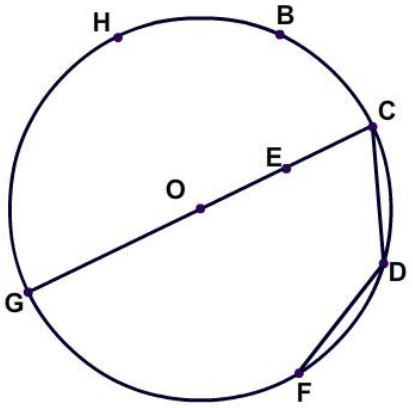
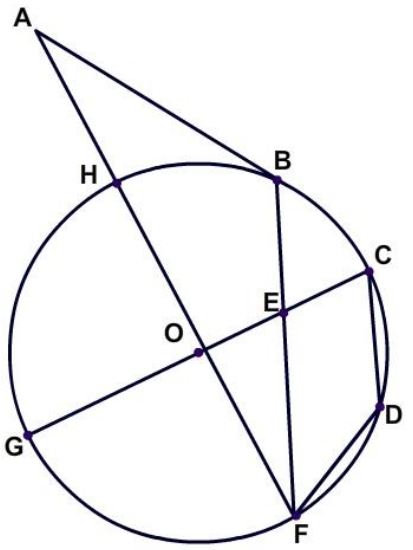
Warm Up: $\overset{\frown}{GF} : \overset{\frown}{FD} : \overset{\frown}{DC} = 4:1:1$, What is m$\angle GCD$?



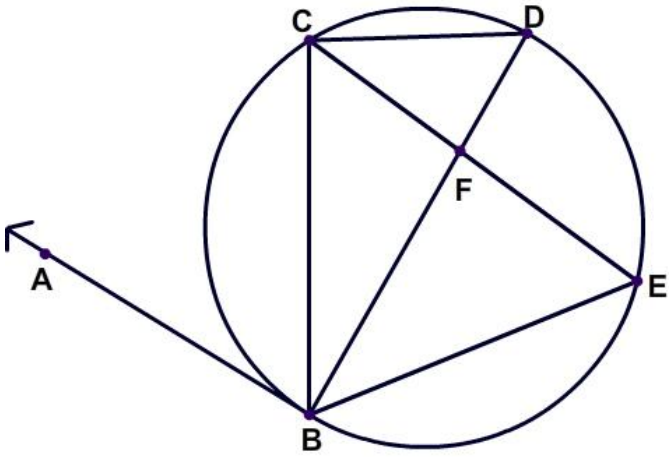
1) $\overline{AB}$ is a tangent. $\overset{\frown}{GF} : \overset{\frown}{FD} : \overset{\frown}{DC} = 4:1:1$, $\angle HFB = 25°$, $\overset{\frown}{BC} = 30°$

Find m $\overset{\frown}{GF}$, m $\angle A, m\angle BEC, m\angle GCD$



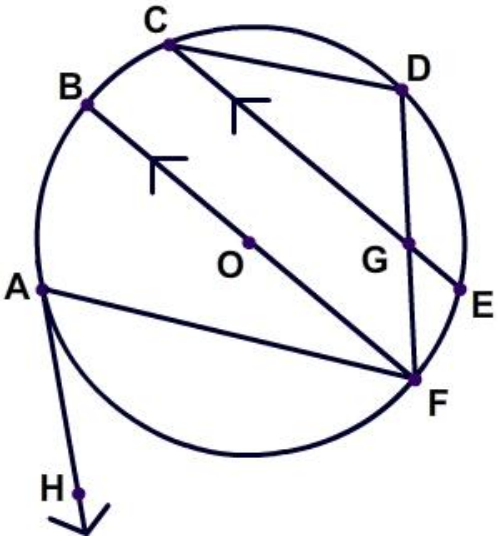
2) $\overrightarrow{AB}$ is a tangent. $\angle ABC=60°$, $\overset{\frown}{CD}=50°$, $\overset{\frown}{DE}:\overset{\frown}{EB}=9:10$

Find $m\angle DCE$, $m\angle CDB$, $m\angle CEB$, $m\angle CFD$.



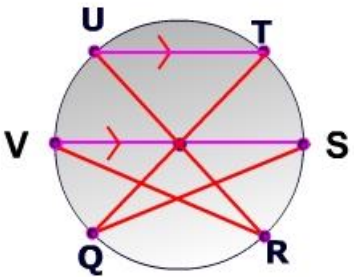
3) $\overleftrightarrow{AH}$ is a tangent, $\overline{BOF}$ is a diameter $BF \parallel CE$, $m\angle FAH = 70°, \overset{\frown}{CDE} = 100°$

Find the measure of $\overset{\frown}{FA}$, $\overset{\frown}{BA}$, $\overset{\frown}{BC}$, $\overset{\frown}{EF}$, $m\angle CDF$, $m\angle AFD$



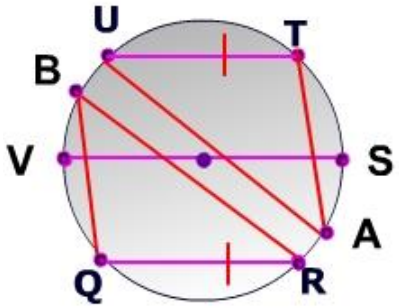
6) UR and TQ are chords. M $\overset{\frown}{UT} = 52^{o}$

What is the measure of $QR, UV, TS, \angle TQS, m\angle URV$?

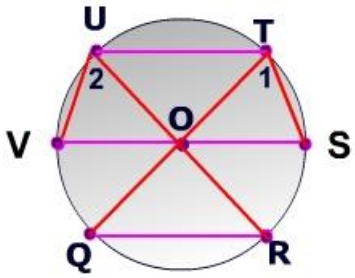


7) M $\overset{\frown}{QR} = 80^{o}$

What is the measure of $\angle UAT, \angle QBR, \overset{\frown}{UT}$?



8) $\angle 1 \cong \angle 2$ and $QR = 70^{o}$



What is the measure of $\angle 1$, $\angle 2$, $\angle QOR$

Is VS || QR? Explain your answer?

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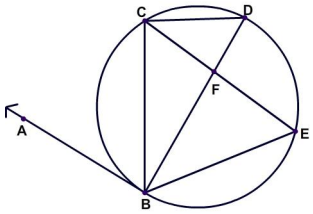

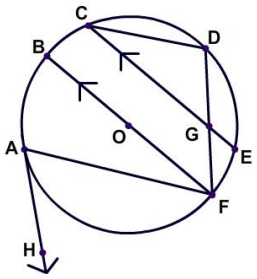

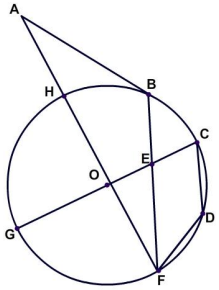

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