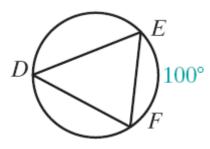
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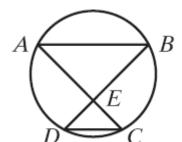
Inscribed Angles and Their Measures

1) Triangle DEF is inscribed in a circle, $\overline{DE} \cong \overline{EF}$ and mEF = 100. Find:



- **2)** *m∠F*
- **3)** *m∠E*
- 4) mDE
- 5) *m DF*
- 2) Chords \overline{AC} and \overline{BD} intersect at E in circle O.





- 1) If $m \angle B = 42$ and $m \angle AEB = 104$, find:
- i. $m \angle A$
- ii. $m \angle D$
- iii. *m∠C*
- iv. mBC
- V. mAD
- 2) If $\overline{AB} \square \overline{DC}$ and $m \angle B = 40$, find:
 - i. $m \angle D$
 - ii. mAD
- iii. mBC
- iv. $m \angle A$
- V. $m \angle DEC$
- 3) If mAD = 100, mAB = 110, and mBC = 96, find:
- i. mDC
- ii. $m \angle A$
- iii. *m∠B*
- iv. $m \angle AEB$
- **V.** *m∠C*

3) Chords \overline{AC} and \overline{BD} of circle O intersect at E. If $\overline{AB} \cong \overline{CD}$, prove that $\Box ABC \cong \Box DCB$

4) Prove that a trapezoid inscribed in a circle is isosceles

5) ABCD is a cyclic quadrilateral. Find the angles of the cyclic quadrilateral.

