Figures for 4-5 April lesson on arcs, chords, secant/tangent/chord angles
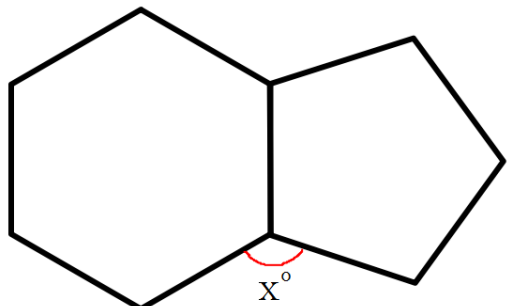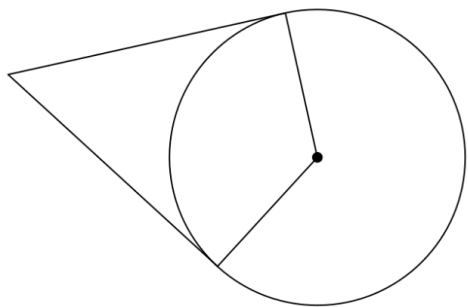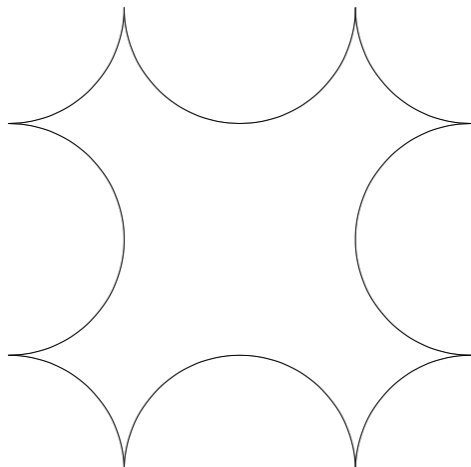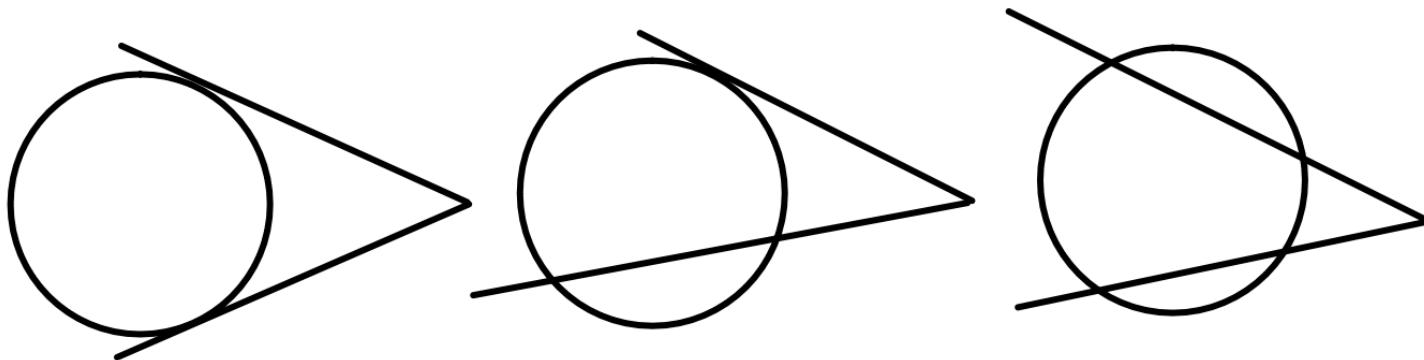
A regular hexagon and regular pentagon share a side. Find the indicated angle.
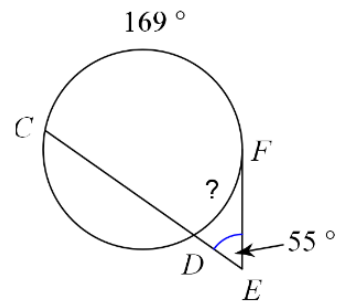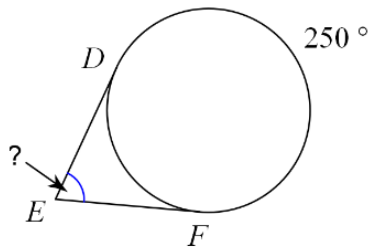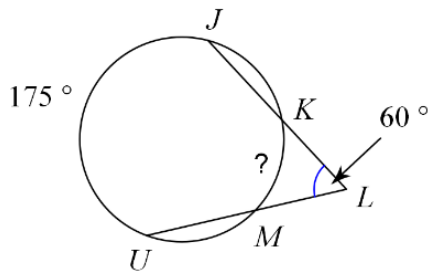

X^o

The figure formed here consists of 4 semicircles and 4 quarter circles, each with radius 1 unit. Find the perimeter and the enclosed area.
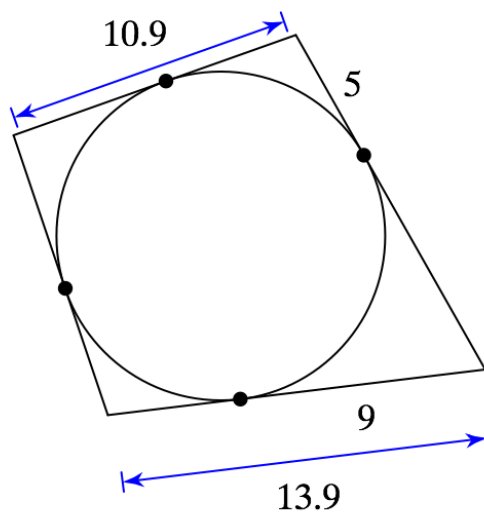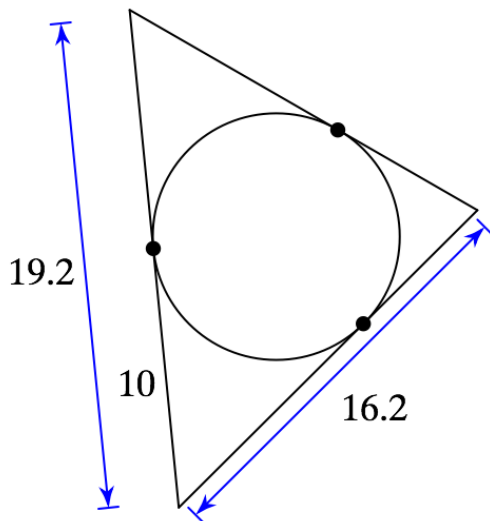

Secant-Tangent Arc Pattern

175 °

J

K

60 °

?

L

M

U

D

250 °

?

E

F

169 °

C

F

?

D

55 °

E

Congruent Tangents: find the perimeter

19.2

10

16.2

10.9

5

9

13.9

Chord-Chord Arcs and Angles

50 ° T

J

M ?

L

126 °

K

S

?

87 ° R

U

T

54 °

L