Geometry 1 - Mr. C. - All work on looseleaf. Name_____

Practice for Q3Exam2

Date_____ Period____

Identify the center and radius of each.

1) $(x-13)^2+(y-7)^2=16$

2) $(x+9)^2+(y-14)^2=4$

3) $(x-3)^2+(y+12)^2=36$

4) $(x-1)^2+y^2=308$

Use the information provided to write the equation of each circle.

5) Center: $(14, -5)$
Radius: 4

6) Center: $(-7, 2)$
Radius: $\sqrt{133}$

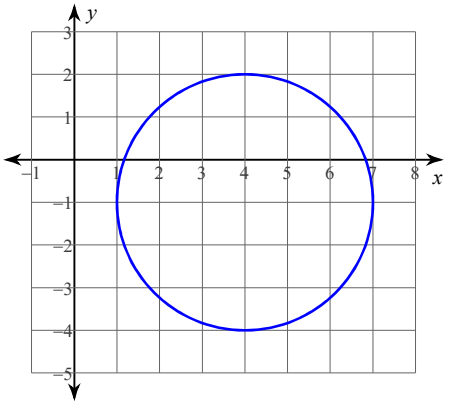
7) Center: $(-7, 13)$
Point on Circle: $(-3, 15)$

8) Center: $(-8, -10)$
Point on Circle: $(-16, -6)$

9) Center: $(-5, 4)$
Point on Circle: $(-7, 9)$

10) Center: $(-12, -16)$
Point on Circle: $(-9, -16)$

11)



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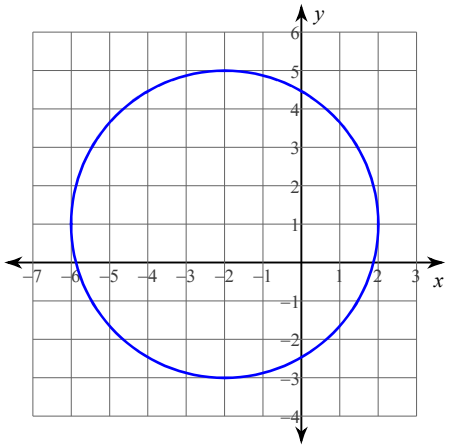


Find the circumference of each circle. Use 3.1416 for the value of π. Round your answer to the nearest tenth.

13) radius = 10.9 yd

14) radius = 5.1 yd

15) radius = 6.7 mi

16) radius = 6.8 mi

Find the area of each. Use 3.1416 for the value of π. Round your answer to the nearest tenth.

17) radius = 4.9 ft

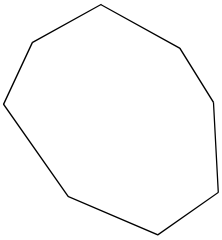
18) radius = 5 ft

19) radius = 9.1 yd

20) radius = 7 in

Write the name of each polygon.

21)



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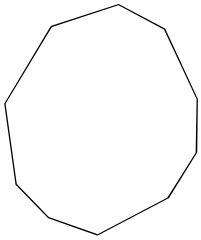

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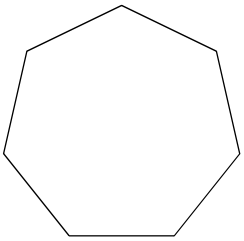

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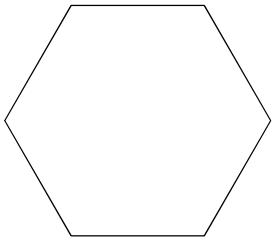
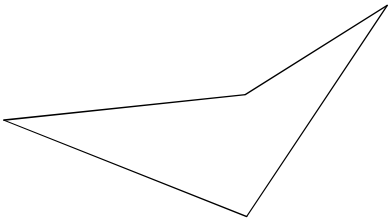


State if each polygon is concave or convex.

25)



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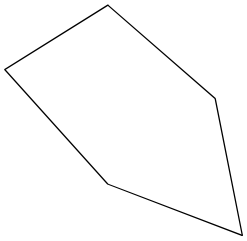
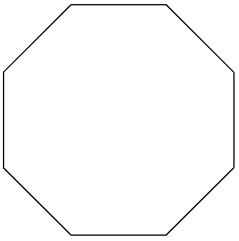


State if each polygon is regular or not.

27)



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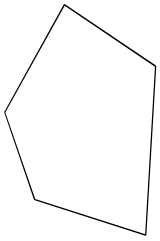
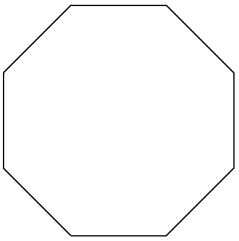


Find the measure of one interior angle in each polygon. Round your answer to the nearest tenth if necessary.

29)



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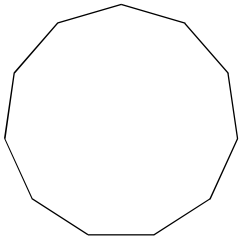
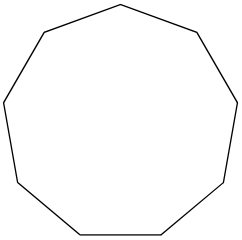


Find the measure of one exterior angle in each polygon. Round your answer to the nearest tenth if necessary.

31)



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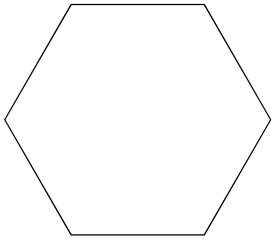
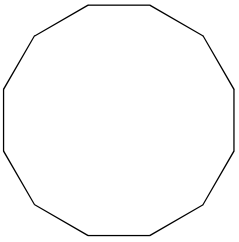


Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

33)



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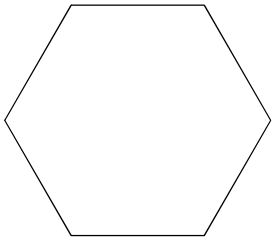
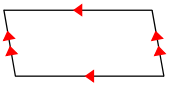


State all possible names for each figure.

35)



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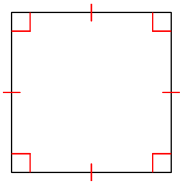

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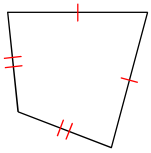

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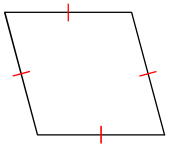

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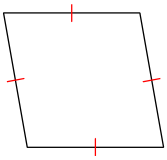

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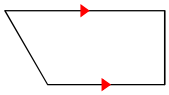

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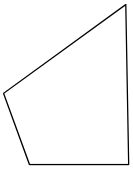

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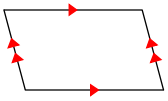
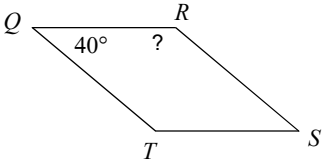


Find the measurement indicated in each parallelogram.

43)



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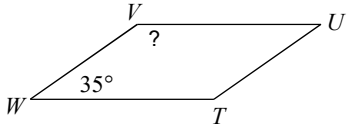

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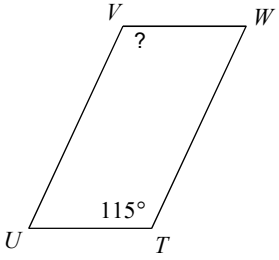

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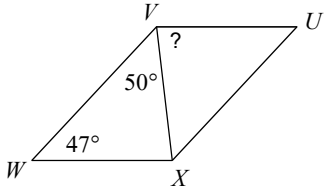

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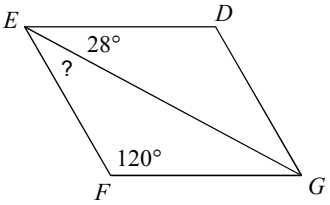

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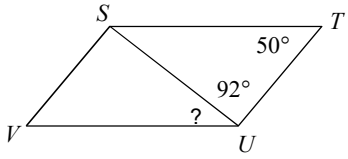
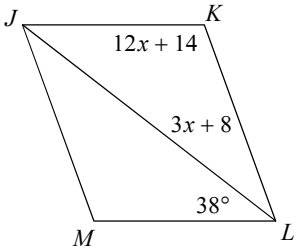
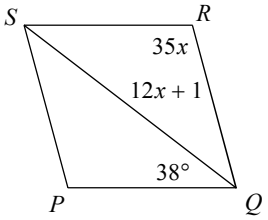


49) Find $m\angle KJM$

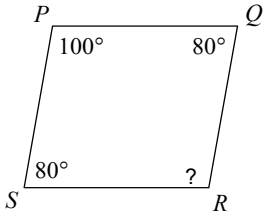


50) Find $m\angle R$

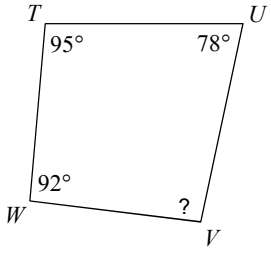


Find the measure of each angle indicated.

51)



52)



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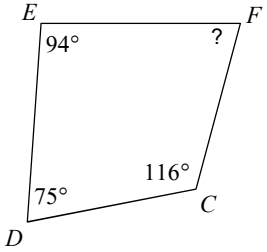

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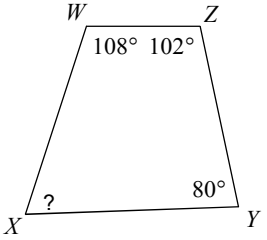
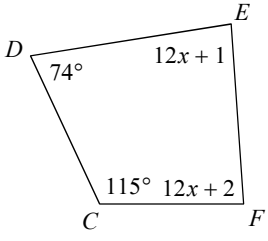
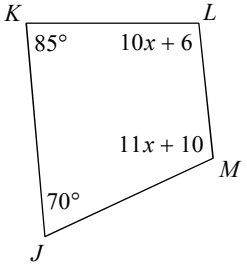


55) $m\angle E$



56) $m\angle L$

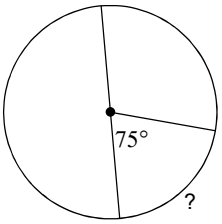


57) THE FOLLOWING QUESTIONS ARE REVIEW QUESTIONS FROM THE FIRST HALF OF QUARTER 3. YOUR MARKED UP EXAM 1 IS YOUR BEST STUDY GUIDE. HAVE YOU MEMORIZED YOUR "A-F CIRCLE PROPERTIES" SUMMARY SHEET? DO YOU STILL HAVE YOUR MARKED UP EXAM 1?

A) Of course, I am a good student B) Of course not, I never listen or follow directions

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

58)



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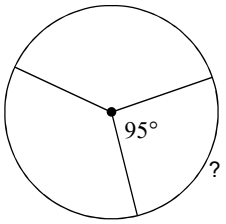

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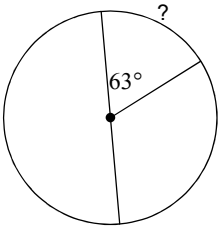

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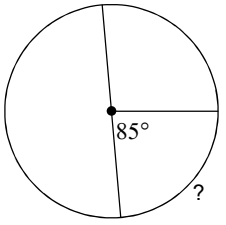
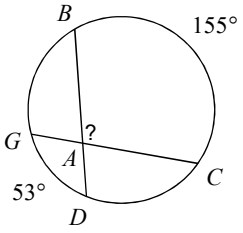
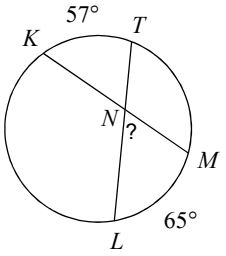


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

62)



63)



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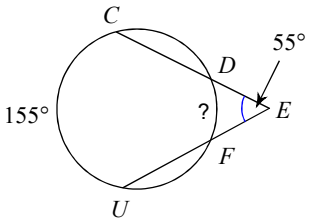

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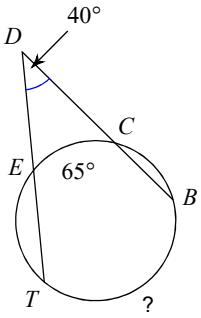

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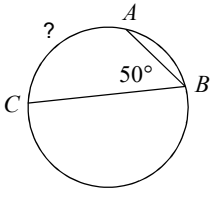

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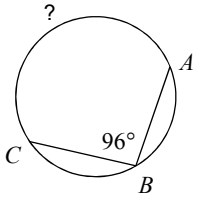

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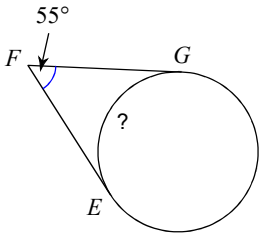

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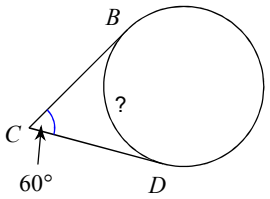

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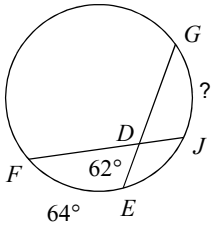

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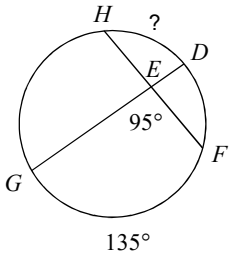

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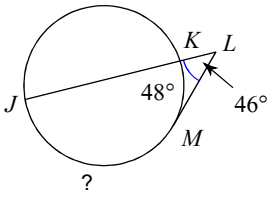

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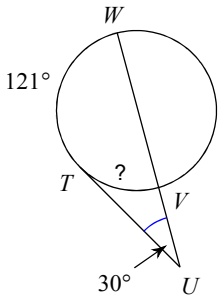
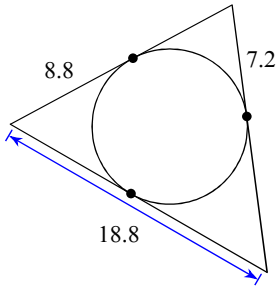


Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

74)



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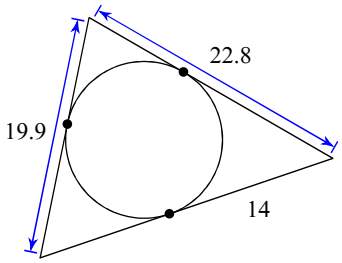
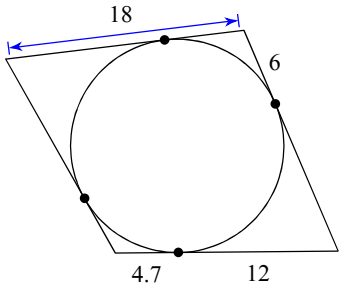
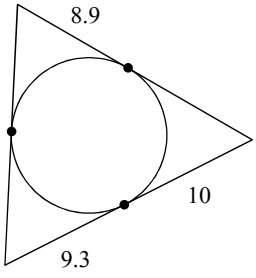


76)

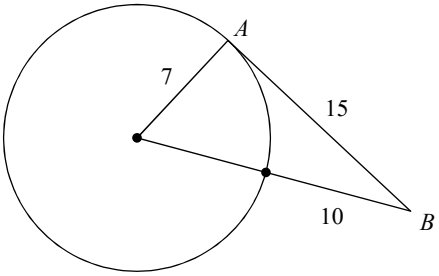


77)

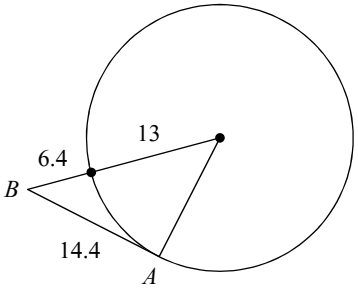


Determine if line AB is tangent to the circle.

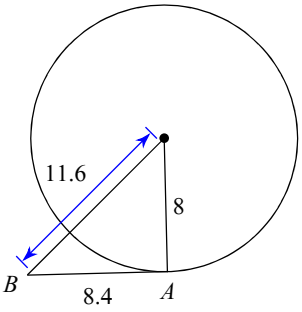
78)



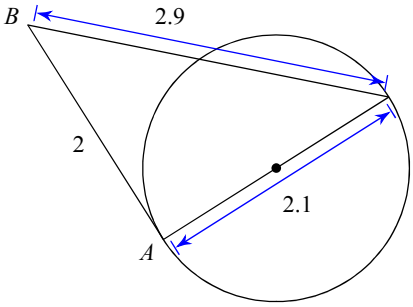
79)



80)

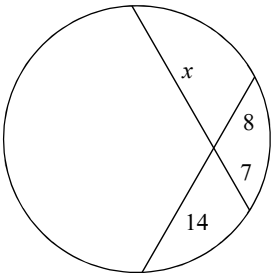


81)

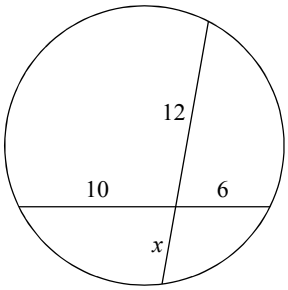


Solve for *x*. Assume that lines which appear tangent are tangent.

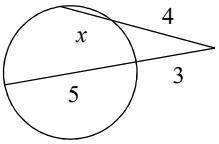
82)



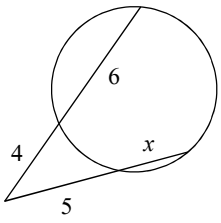
83)



84)

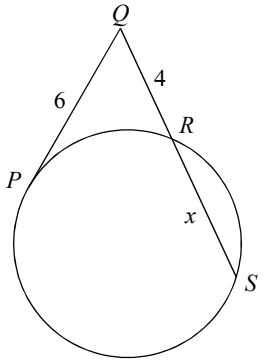


85)

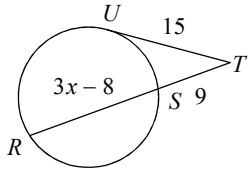


Find the measure of the line segment indicated. Assume that lines which appear tangent are tangent.

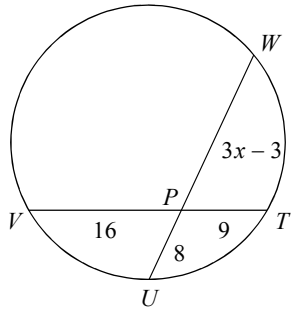
86) Find *RS*



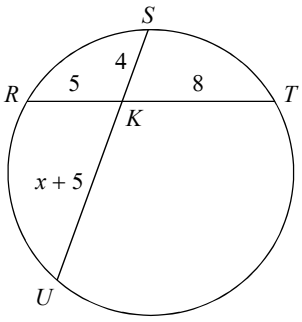
87) Find *SR*



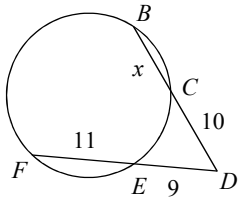
88) Find *PW*



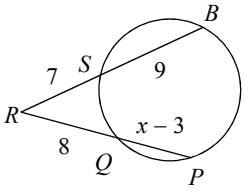
89) Find *SU*



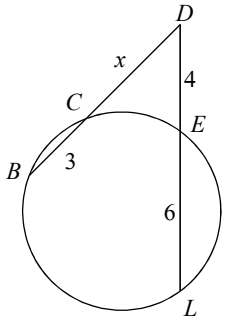
90) Find *BC*



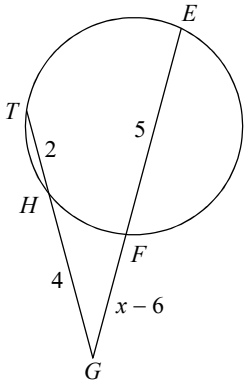
91) Find *PR*



92) Find *CD*



93) Find *EG*



Answers to Practice for Q3Exam2 (ID: 1)

1) Center: $(13, 7)$ Radius: 4
2) Center: $(-9, 14)$ Radius: 2
3) Center: $(3, -12)$ Radius: 6
4) Center: $(1, 0)$ Radius: $2\sqrt{77}$
5) $(x-14)^2+(y+5)^2=16$
6) $(x+7)^2+(y-2)^2=133$
7) $(x+7)^2+(y-13)^2=20$
8) $(x+8)^2+(y+10)^2=80$
9) $(x+5)^2+(y-4)^2=29$
10) $(x+12)^2+(y+16)^2=9$
11) $(x-4)^2+(y+1)^2=9$
12) $(x+2)^2+(y-1)^2=16$
13) 68.5 yd
14) 32 yd
15) 42.1 mi
16) 42.7 mi
17) 75.4 ft²
18) 78.5 ft²
19) 260 yd²
20) 153.9 in²
21) octagon
22) decagon
23) heptagon
24) hexagon
25) concave
26) convex
27) regular
28) not regular
29) 135°
30) 147.3°
31) 40°
32) 60°
33) 1800°
34) 720°
35) quadrilateral, parallelogram
36) quadrilateral, parallelogram, rhombus, rectangle, square
37) quadrilateral, kite
38) quadrilateral, parallelogram, rhombus
39) quadrilateral, parallelogram, rhombus
40) quadrilateral, trapezoid
41) quadrilateral
42) quadrilateral, parallelogram
43) 140°
44) 145°
45) 115°
46) 83°
47) 32°
48) 38°
49) 70°
50) 105°
51) 100°
52) 95°
53) 75°
54) 70°
55) 85°
56) 96°
57) A
58) 75°
59) 95°
60) 63°
61) 85°
62) 104°
63) 61°
64) 45°
65) 145°
66) 100°
67) 192°
68) 125°
69) 120°
70) 60°
71) 55°
72) 140°
73) 61°
74) 52
75) 67.8
76) 69.4
77) 56.4
78) Not tangent
79) Tangent
80) Tangent
81) Tangent
82) 16
83) 5
84) 2
85) 3
86) 5
87) 16
88) 18
89) 14
90) 8
91) 14
92) 5
93) 8