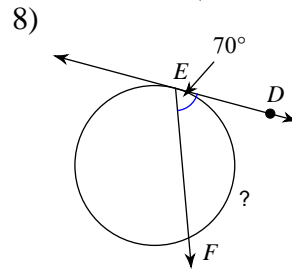
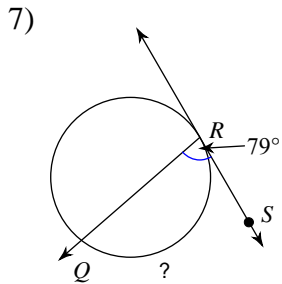
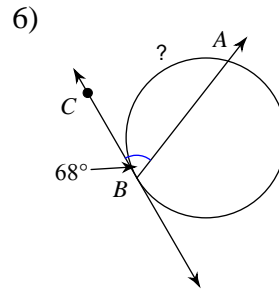
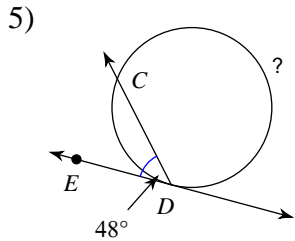
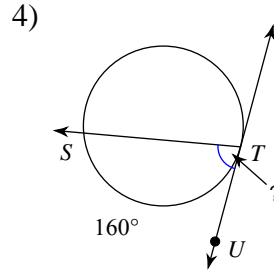
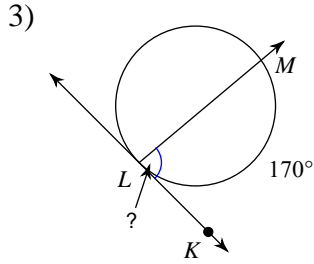
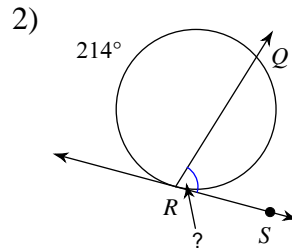
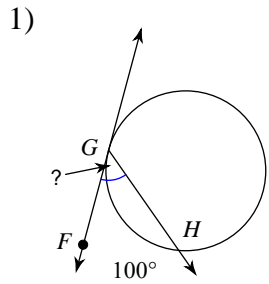


Vertex of Angle is on Circle or Outside Circle

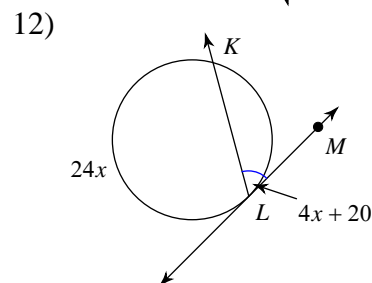
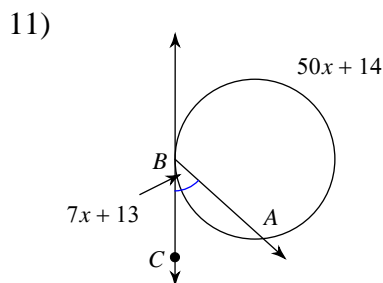
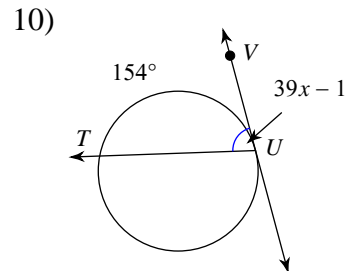
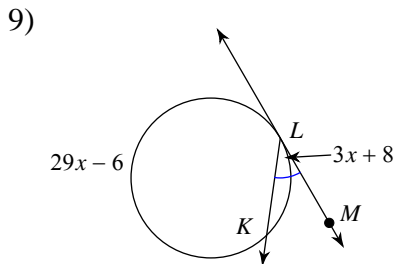
Period _____

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

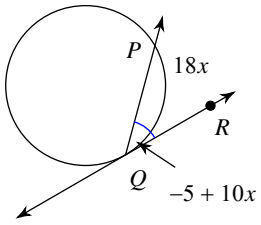


Solve for x . Assume that lines which appear tangent are tangent.

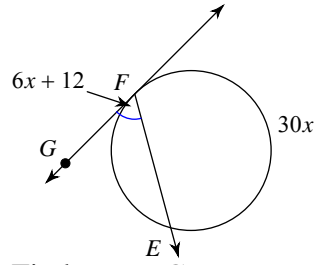


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

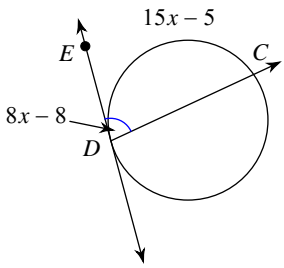
13) Find $m\angle PQR$



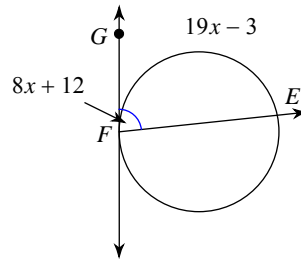
14) Find $m\angle EFG$



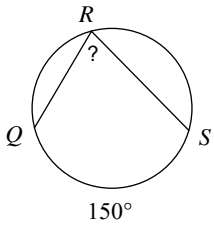
15) Find $m\angle CDE$



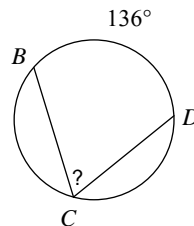
16) Find $m\angle EFG$



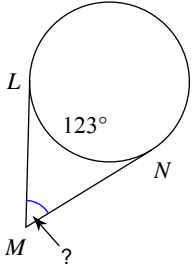
17)



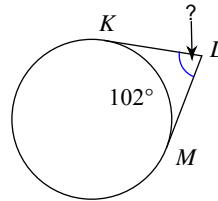
18)



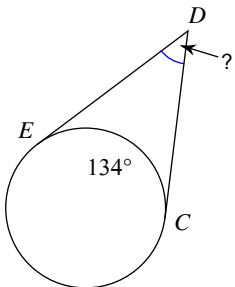
19)



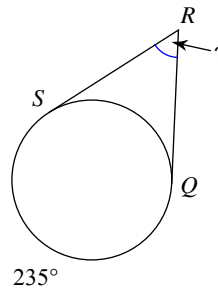
20)



21)

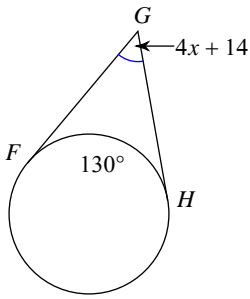


22)

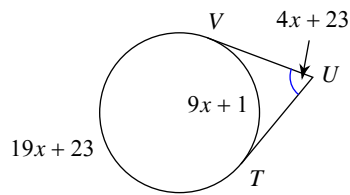


Solve for x . Assume that lines which appear tangent are tangent.

23)

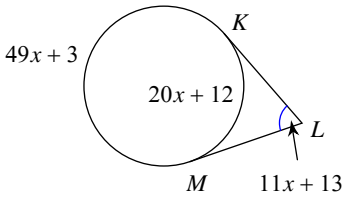


24)

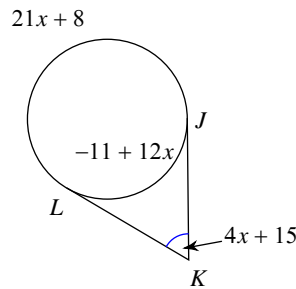


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

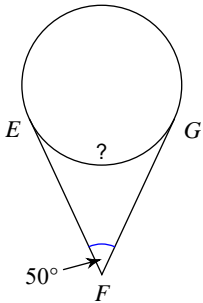
25) Find $m\angle MLK$



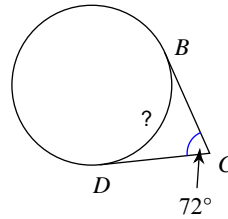
26) Find $m\angle JKL$



27)

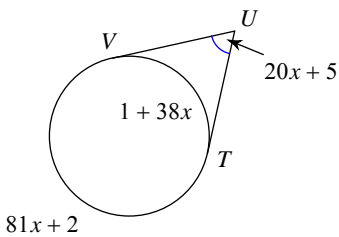


28)

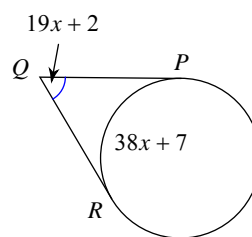


Solve for x . Assume that lines which appear tangent are tangent.

29)

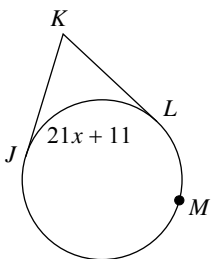


30)

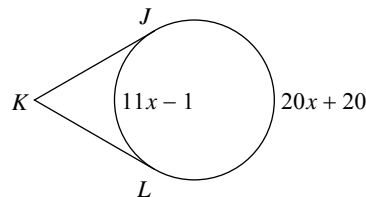


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

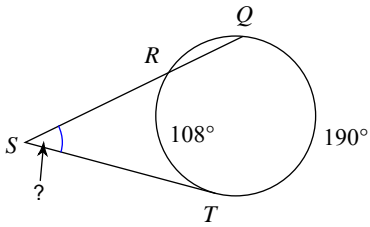
31) $m\widehat{JML} = 49x - 1$
Find $m\widehat{JML}$



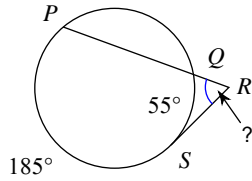
32) Find $m\widehat{JL}$



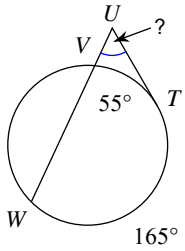
33)



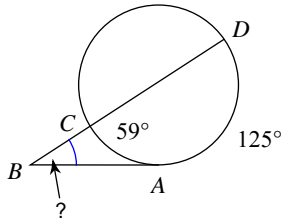
34)



35)

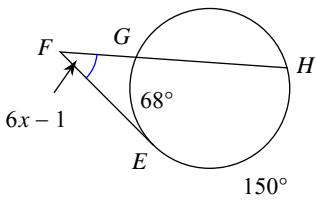


36)

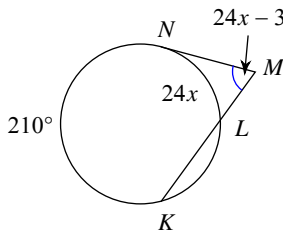


Solve for x . Assume that lines which appear tangent are tangent.

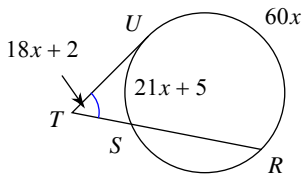
37)



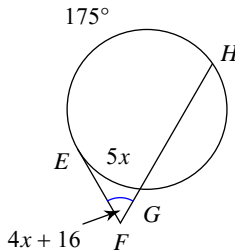
38)



39)

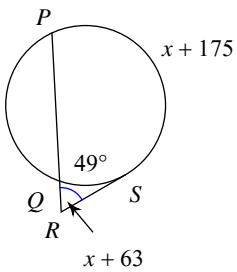


40)

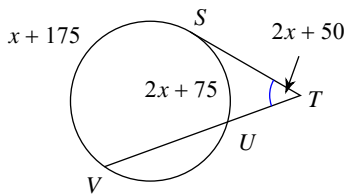


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

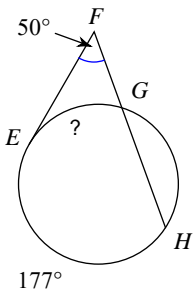
41) Find $m\angle SRP$



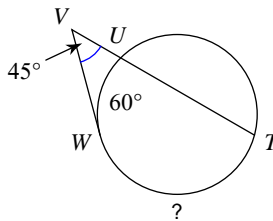
42) Find $m\angle STV$



43)

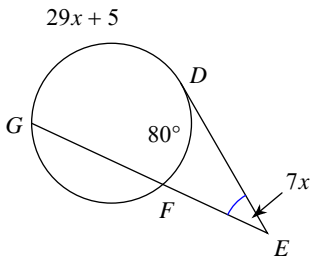


44)

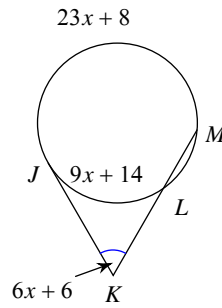


Solve for x . Assume that lines which appear tangent are tangent.

45)

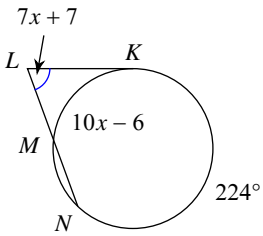


46)

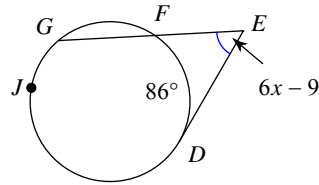


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

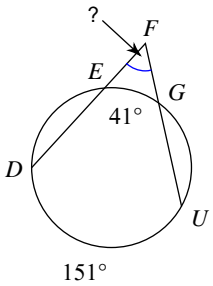
47) Find $m\widehat{KM}$



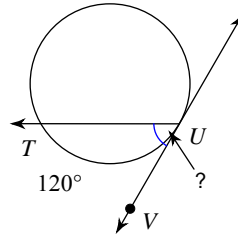
48) $m\widehat{GJD} = 17x + 13$
Find $m\widehat{GJD}$



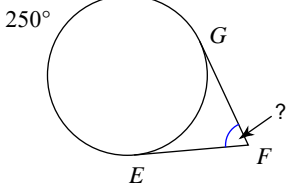
49)



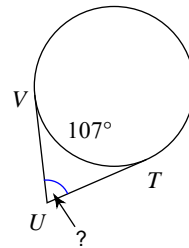
50)



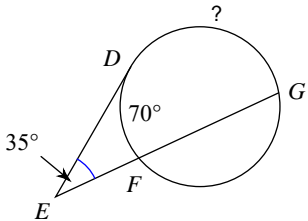
51)



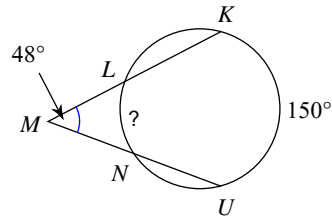
52)



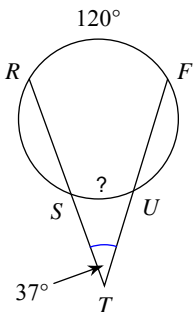
53)



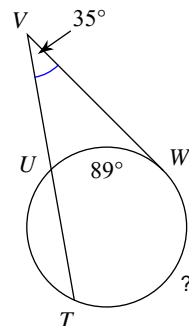
54)



55)



56)



Answers to Vertex of Angle is on Circle or Outside Circle (ID: 1)

- | | | | |
|-----------------|----------------|-----------------|-----------------|
| 1) 50° | 2) 73° | 3) 85° | 4) 80° |
| 5) 264° | 6) 136° | 7) 158° | 8) 140° |
| 9) 10 | 10) 2 | 11) 5 | 12) 10 |
| 13) 45° | 14) 60° | 15) 80° | 16) 84° |
| 17) 75° | 18) 68° | 19) 57° | 20) 78° |
| 21) 46° | 22) 55° | 23) 9 | 24) 12 |
| 25) 68° | 26) 59° | 27) 130° | 28) 108° |
| 29) 3 | 30) 3 | 31) 244° | 32) 120° |
| 33) 41° | 34) 65° | 35) 55° | 36) 33° |
| 37) 7 | 38) 3 | 39) 3 | 40) 11 |
| 41) 63° | 42) 50° | 43) 77° | 44) 150° |
| 45) 5 | 46) 9 | 47) 84° | 48) 200° |
| 49) 55° | 50) 60° | 51) 70° | 52) 73° |
| 53) 140° | 54) 54° | 55) 46° | 56) 159° |