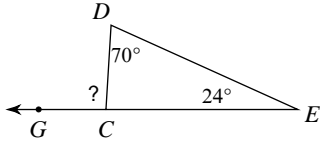


3.5 Exterior Angle Theorem and Triangle Sum Theorem

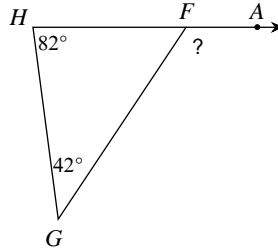
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Find the measure of each angle indicated.

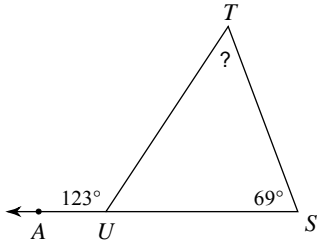
1)



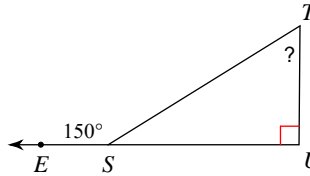
2)



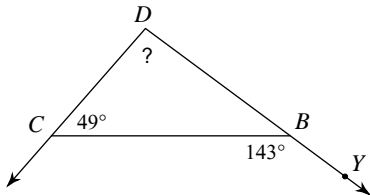
3)



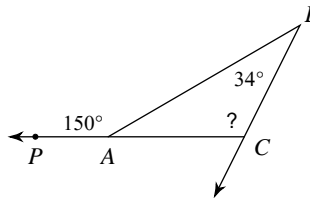
4)



5)

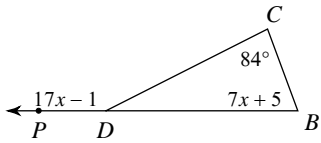


6)

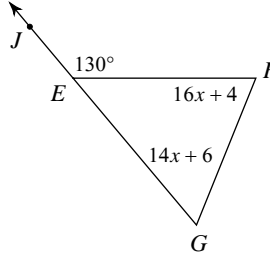


Solve for x.

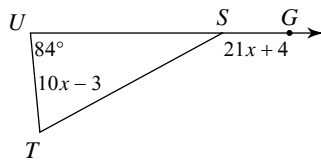
7)



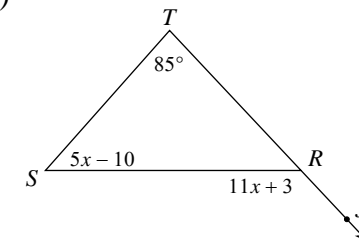
8)



9)

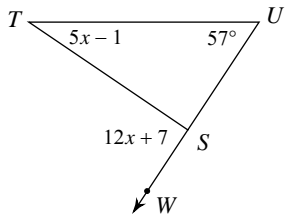


10)

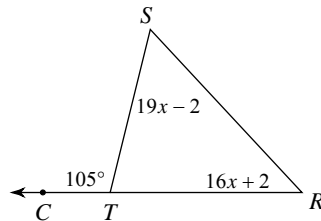


Find the measure of the angle indicated.

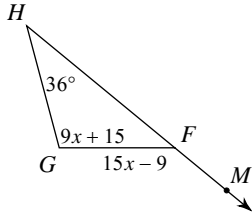
11) Find $m\angle WST$.



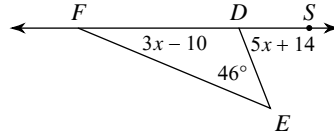
12) Find $m\angle R$.



13) Find $m\angle MFG$.

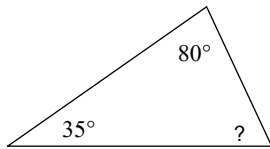


14) Find $m\angle EFD$.

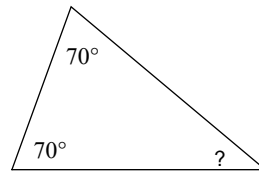


Find the measure of each angle indicated.

15)

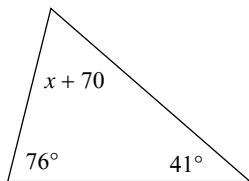


16)

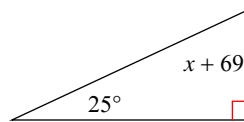


Solve for x .

17)

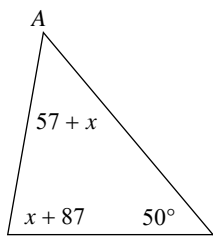


18)

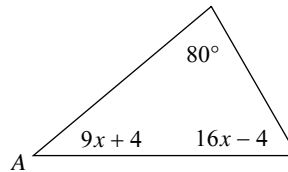


Find the measure of angle A.

19)

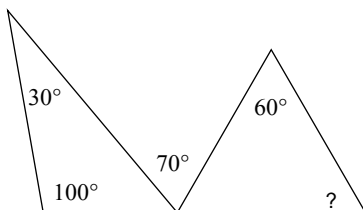


20)

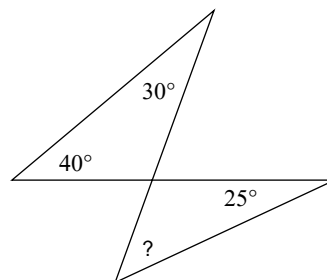


Find the measure of each angle indicated.

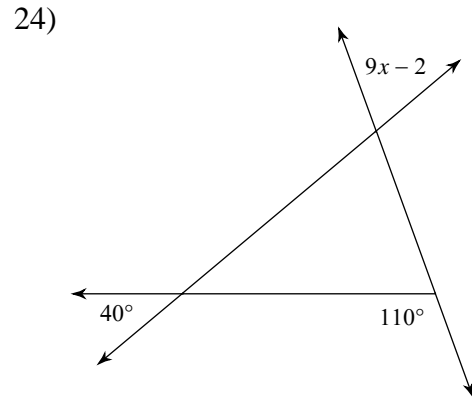
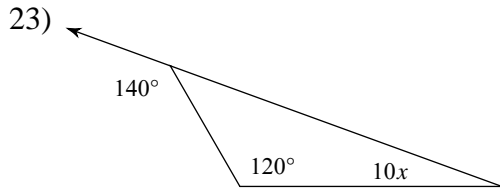
21)



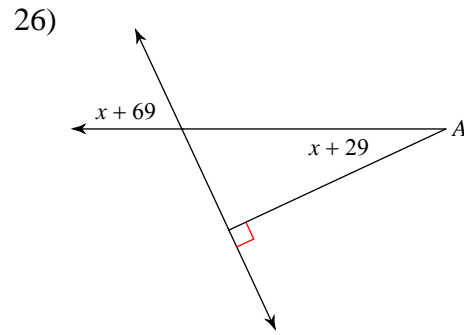
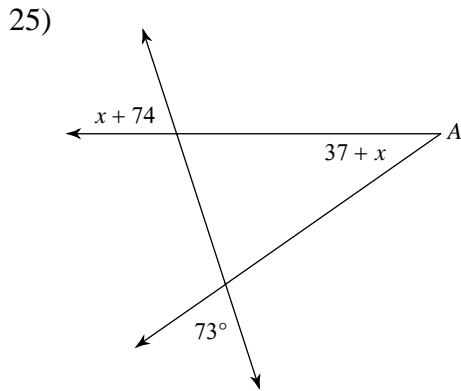
22)



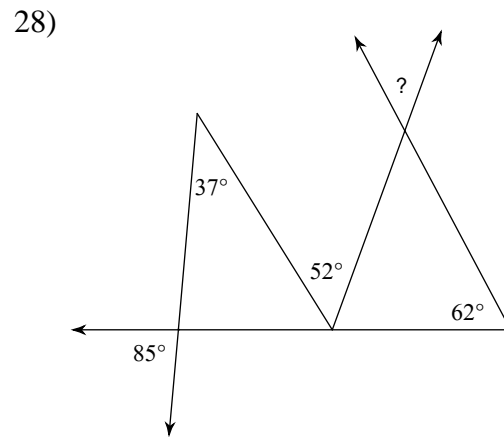
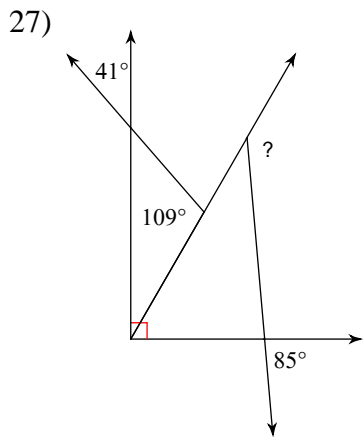
Solve for x .



Find the measure of angle A.



Find the measure of each angle indicated.



Answers to 3.5 Exterior Angle Theorem and Triangle Sum Theorem (ID: 1)

- | | | | |
|-----------------|----------------|-----------------|----------------|
| 1) 94° | 2) 124° | 3) 54° | 4) 60° |
| 5) 94° | 6) 116° | 7) 9 | 8) 4 |
| 9) 7 | 10) 12 | 11) 91° | 12) 50° |
| 13) 141° | 14) 23° | 15) 65° | 16) 40° |
| 17) -7 | 18) -4 | 19) 50° | 20) 40° |
| 21) 60° | 22) 45° | 23) 2 | 24) 8 |
| 25) 35° | 26) 25° | 27) 145° | 28) 48° |