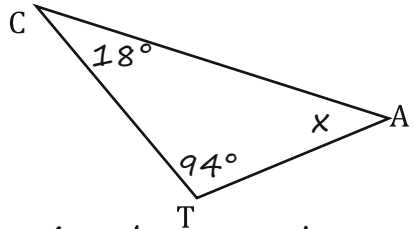
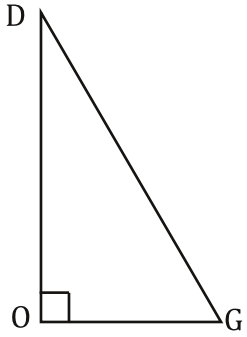
Mark the diagram with the given information. Then, find the measure of the indicated angle.

17. m∠C=18°, m∠T=94°. Find m∠A.

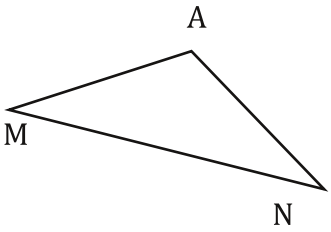


Triangle Sum Theorem
18°+94°+x=180°
112°+x=180°
-112° -112° x=68° m∠A=68°

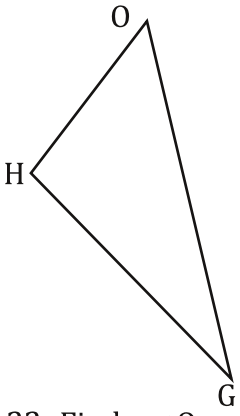
18. m∠D=30°, m∠O=90°. Find m∠G.



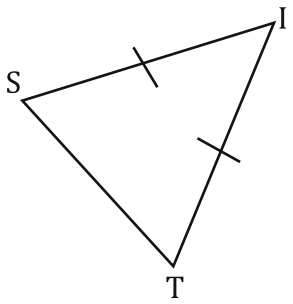
19. m∠A=138°, m∠N=17°. Find m∠M.



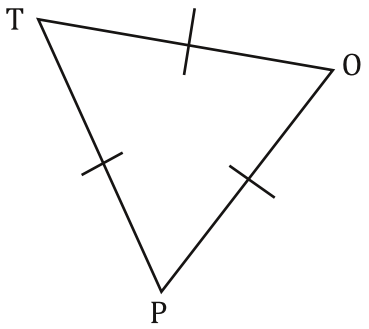
20. m∠O=47°, m∠G=43°. Find m∠H.



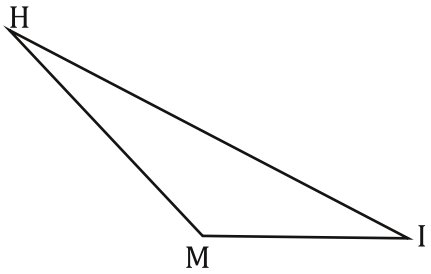
21. m∠I=48°. Find m∠T.



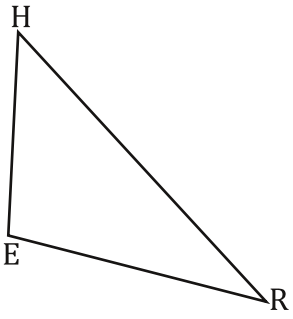
22. Find m∠O, m∠T, and m∠P.



23. m∠H=13°, m∠I=24°. Find m∠M.



24. m∠E=118°, m∠R=26°. Find m∠H.

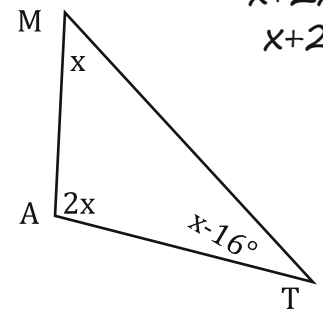


Bubble all the correct answers from above. Don't bubble incorrect answers.

○ 68° ○ 112° ○ 66° ○ 132° ○ 143° ○ 37° ○ 36° ○ 20° ○ 60° ○ 90° ○ 60° ○ 30° ○ 25° ○ 120°

Solve for x.

25.



Triangle Sum Theorem

$x+2x+(x-16°)=180°$

$x+2x+x-16°=180°$

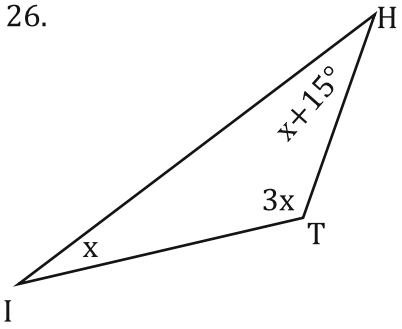
$4x-16°=180°$

$+16° \quad +16°$

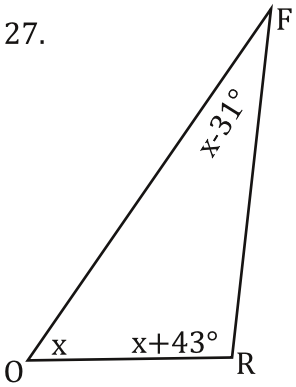
$\frac{4x}{4}=\frac{196°}{4}$

$x=49°$

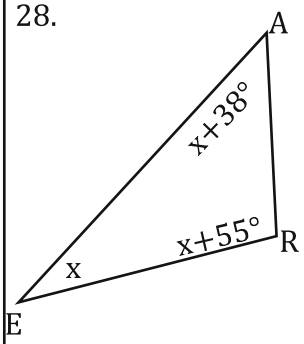
26.



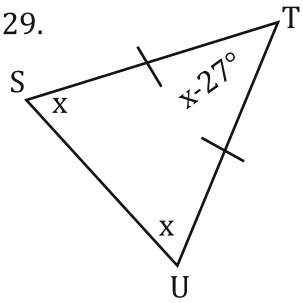
27.



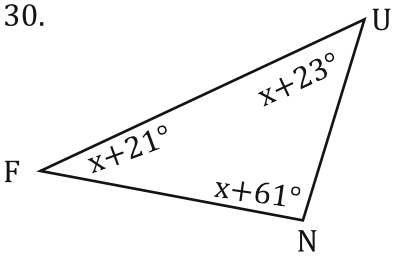
28.



29.



30.

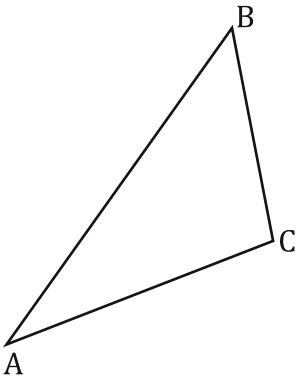


Bubble all the correct answers from above. Don't bubble incorrect answers.

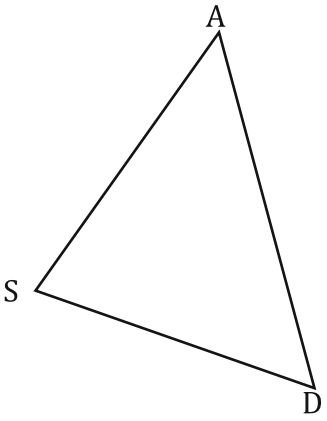
○ 165° ○ 25° ○ 69° ○ 27° ○ 29° ○ 55° ○ 56° ○ 39° ○ 33° ○ 49°

Mark the diagram with the given information. Then, find the measure of the indicated angle.

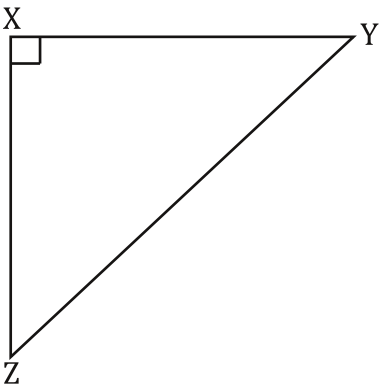
31. m∠A=X, m∠B=2X. m∠C=2X+30°. Find m∠B.



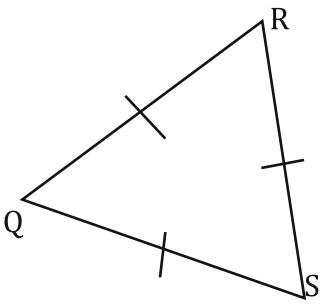
32. m∠S=2x, m∠A=X-23. m∠D=X-17°. Find m∠S.



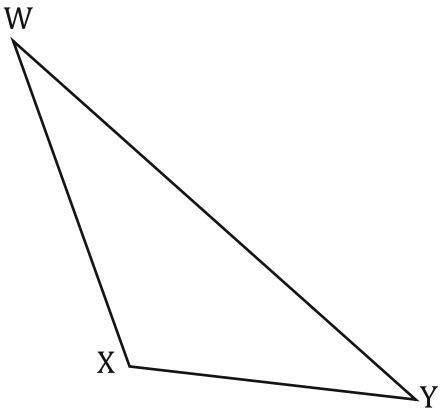
33. m∠Y=x+5°, m∠Z=x-7°. Find m∠Z.



34. Find m∠R, m∠Q, and m∠S.



35. m∠W=x-22°, m∠X=3x+19°, m∠Y=x-17°. Find m∠X.



Bubble all the correct answers from above. Don't bubble incorrect answers.

○39° ○60° ○139° ○60° ○110° ○55° ○50° ○46° ○31° ○92°