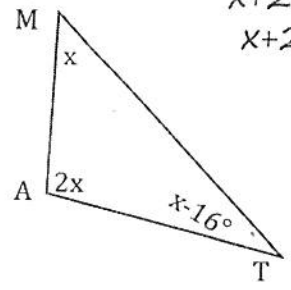
Solve for x.

25.



Triangle Sum Theorem

$x+2x+(x-16°)=180°$

$x+2x+x-16°=180°$

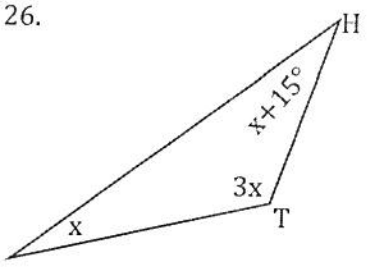
$4x-16°=180°$

$+16° \quad +16°$

$\frac{4x}{4}=\frac{196°}{4}$

$x=49°$

26.



Triangle Sum Theorem

$x+3x+(x+15°)=180°$

$x+3x+x+15°=180°$

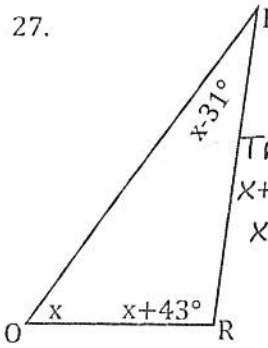
$5x+15°=180°$

$-15° \quad -15°$

$\frac{5x}{5}=\frac{165°}{5}$

$x=33°$

27.



Triangle Sum Theorem

$x+(x+43°)+(x-31°)=180°$

$x+x+43°+x-31°=180°$

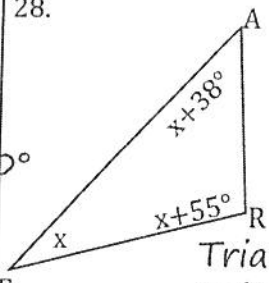
$3x+12°=180°$

$-12° \quad -12°$

$\frac{3x}{3}=\frac{168°}{3}$

$x=56°$

28.



Triangle Sum Theorem

$x+(x+55°)+(x+38°)=180°$

$x+x+55°+x+38°=180°$

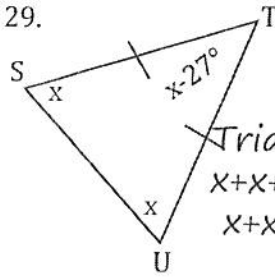
$3x+93°=180°$

$-93° \quad -93°$

$\frac{3x}{3}=\frac{87°}{3}$

$x=29°$

29.



Triangle Sum Theorem

$x+x+(x-27°)=180°$

$x+x+x-27°=180°$

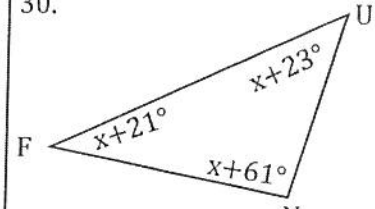
$3x-27°=180°$

$+27° \quad +27°$

$\frac{3x}{3}=\frac{207°}{3}$

$x=69°$

30.



Triangle Sum Theorem

$(x+21°)+(x+23°)+(x+61°)=180°$

$x+21°+x+23°+x+61°=180°$

$3x+105°=180°$

$-105° \quad -105°$

$\frac{3x}{3}=\frac{75°}{3}$

$x=25°$

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

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