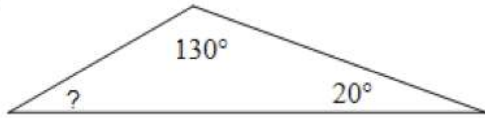


3.4 Practice Problems

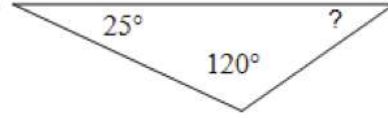
Find the measure of each angle indicated.

1)



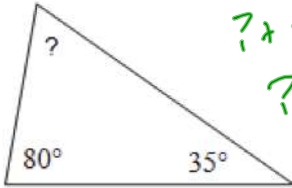
$$\begin{aligned} 130 + 20 + ? &= 180 \\ 150 + ? &= 180 \\ -150 & \quad -150 \\ \hline ? &= 30^\circ \end{aligned}$$

2)



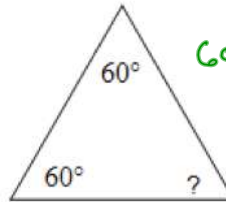
$$\begin{aligned} 25 + 120 + ? &= 180 \\ 145 + ? &= 180 \\ -145 & \quad -145 \\ \hline ? &= 35^\circ \end{aligned}$$

3)



$$\begin{aligned} ? + 80 + 35 &= 180 \\ ? + 115 &= 180 \\ -115 & \quad -115 \\ \hline ? &= 65^\circ \end{aligned}$$

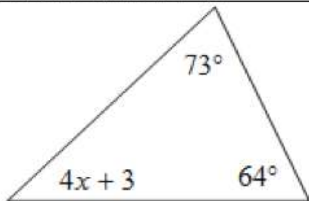
4)



$$\begin{aligned} 60 + 60 + ? &= 180 \\ 120 + ? &= 180 \\ -120 & \quad -120 \\ \hline ? &= 60^\circ \end{aligned}$$

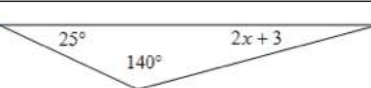
Directions: Solve for x.

5)



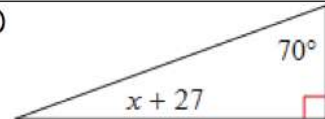
$$\begin{aligned} 73 + (4x+3) + 64 &= 180 \\ 140 + 4x &= 180 \\ -140 & \quad -140 \\ \hline 4x &= 40 \\ \frac{4x}{4} &= \frac{40}{4} \\ x &= 10 \end{aligned}$$

6)



$$\begin{aligned} 25 + 140 + (2x+3) &= 180 \\ 168 + 2x &= 180 \\ -168 & \quad -168 \\ \hline 2x &= 12 \\ \frac{2x}{2} &= \frac{12}{2} \\ x &= 6 \end{aligned}$$

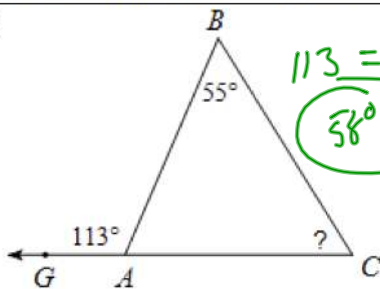
7)



$$\begin{aligned} (x+27) + 70 + 90 &= 180 \\ x + 187 &= 180 \\ -187 & \quad -187 \\ \hline x &= -7 \end{aligned}$$

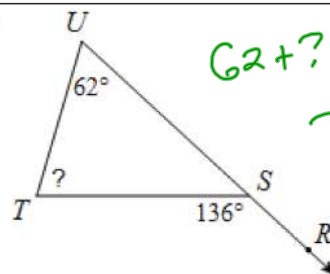
Directions: Find the measure of each angle indicated.

8)

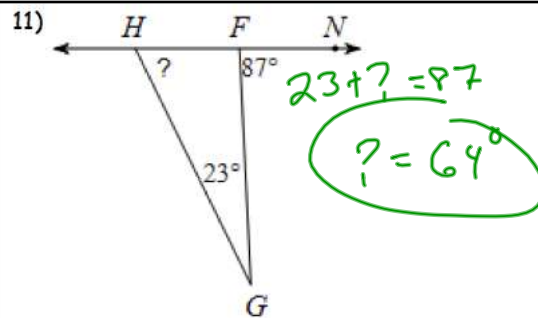
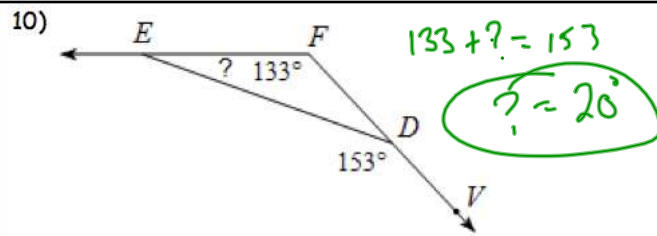


$$\begin{aligned} 113 &= 55 + ? \\ 58^\circ &= ? \end{aligned}$$

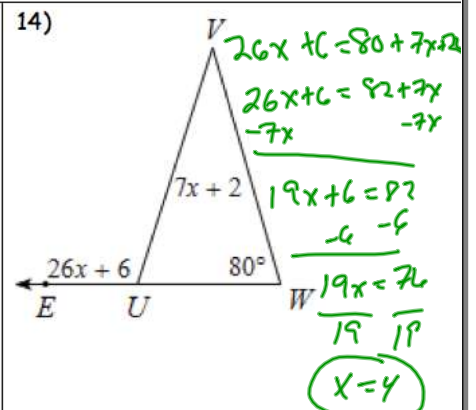
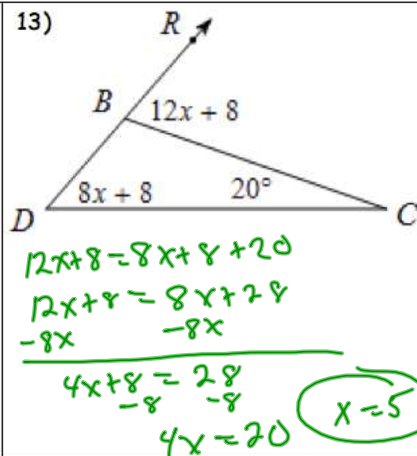
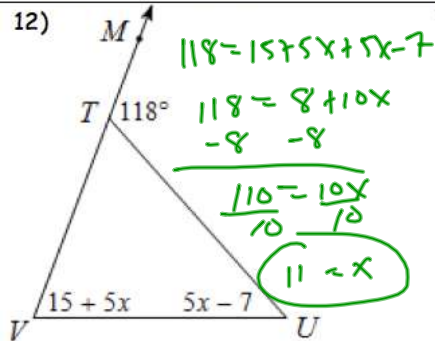
9)



$$\begin{aligned} 62 + ? &= 136 \\ ? &= 74^\circ \end{aligned}$$



Directions: Solve for x.



Directions: Find the measure of each angle.

