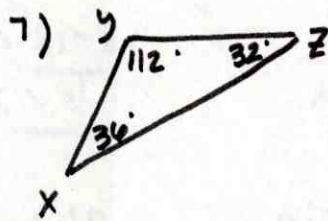
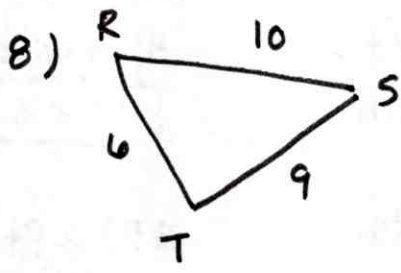


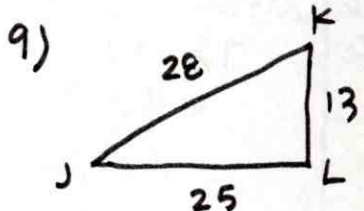
sides	Angles
$\overline{AB}$	$\angle C$
$\overline{BC}$	$\angle A$
$\overline{AC}$	$\angle B$



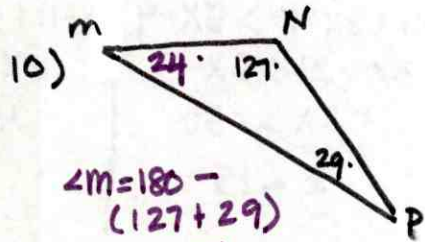
sides	Angles
$\overline{XY}$	$\angle Z$
$\overline{YZ}$	$\angle X$
$\overline{XZ}$	$\angle Y$



sides	Angles
$\overline{RT}$	$\angle S$
$\overline{TS}$	$\angle R$
$\overline{RS}$	$\angle T$

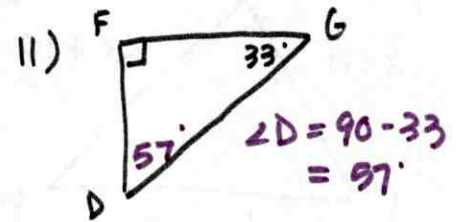


sides	Angles
$\overline{KL}$	$\angle J$
$\overline{JL}$	$\angle K$
$\overline{JK}$	$\angle L$



$\angle m = 180 - (127 + 29) = 24$

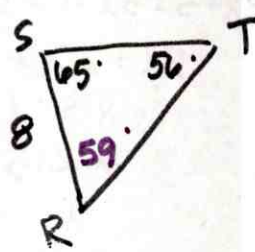
sides	Angles
$\overline{NP}$	$\angle m$
$\overline{MN}$	$\angle P$
$\overline{MP}$	$\angle N$



$\angle D = 90 - 33 = 57$

sides	Angles
$\overline{FD}$	$\angle G$
$\overline{FG}$	$\angle D$
$\overline{DG}$	$\angle F$

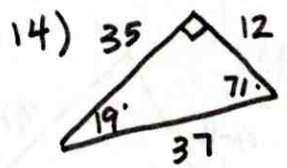
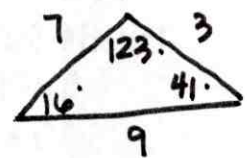
12) Possible side length for ST?



$\angle R = 180 - (65 + 56)$   
 $\angle R = 59$

**C** 9

13)



16) 6, 7, 11  
 $6 + 7 > 11$   
 $13 > 11 \checkmark$   
**yes**

17) 3, 6, 9  
 $3 + 6 > 9$   
 $9 > 9 \times$   
**NO**

18) 28, 34, 39  
 $28 + 34 > 39$   
 $62 > 39 \checkmark$   
**yes**

19) 35, 120, 125  
 $35 + 120 > 125$   
 $155 > 125 \checkmark$   
**yes**

21) 5, 12 in

$$12 - 5 < x < 12 + 5$$

$$\boxed{7 < x < 17} \text{ in}$$

22) 3, 4 m

$$4 - 3 < x < 4 + 3$$

$$\boxed{1 < x < 7} \text{ m}$$

23) 12, 18 ft

$$18 - 12 < x < 18 + 12$$

$$\boxed{6 < x < 30} \text{ ft}$$

24) 10, 23 yds.

$$23 - 10 < x < 23 + 10$$

$$\boxed{13 < x < 33} \text{ yd}$$

25) 2 ft, 40 in  
24 in

$$40 - 24 < x < 40 + 24$$

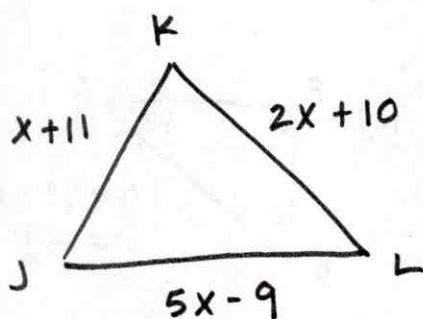
$$\boxed{16 < x < 64} \text{ in}$$

26) 25, 25 m

$$25 - 25 < x < 25 + 25$$

$$\boxed{0 < x < 50}$$

33)

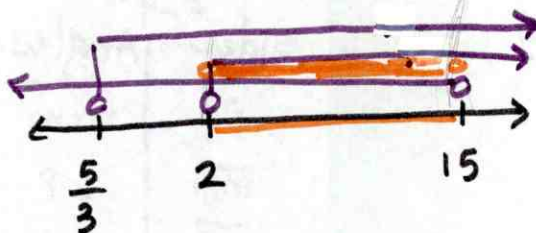


$$\boxed{2 < x < 15}$$

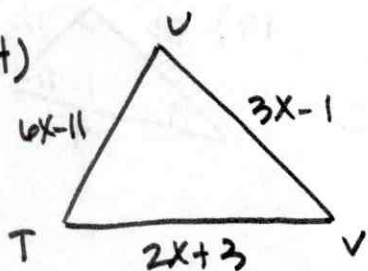
$$\begin{aligned} JK + KL &> JL \\ x+11 + 2x+10 &> 5x-9 \\ 3x+21 &> 5x-9 \\ -2x &> -30 \\ x &< 15 \end{aligned}$$

$$\begin{aligned} JK + JL &> KL \\ x+11 + 5x-9 &> 2x+10 \\ 6x+2 &> 2x+10 \\ 4x &> 8 \\ x &> 2 \end{aligned}$$

$$\begin{aligned} KL + JL &> JK \\ 2x+10 + 5x-9 &> x+11 \\ 7x+1 &> x+11 \\ 6x &> 10 \\ x &> 10/6 \\ x &> 5/3 \\ &\approx 1.67 \end{aligned}$$



34)



$$\boxed{\frac{15}{7} < x < 13}$$

$$\begin{aligned} TU + UV &> TV \\ 6x-11 + 3x-1 &> 2x+3 \\ 9x-12 &> 2x+3 \\ 7x &> 15 \\ x &> 15/7 \\ &\approx 2.14 \end{aligned}$$

$$\begin{aligned} TU + TV &> UV \\ 6x-11 + 2x+3 &> 3x-1 \\ 8x-8 &> 3x-1 \\ 5x &> 7 \\ x &> 7/5 \\ &\approx 1.4 \end{aligned}$$

$$\begin{aligned} TV + UV &> TU \\ 2x+3 + 3x-1 &> 6x-11 \\ 5x+2 &> 6x-11 \\ -x &> -13 \\ x &< 13 \end{aligned}$$

