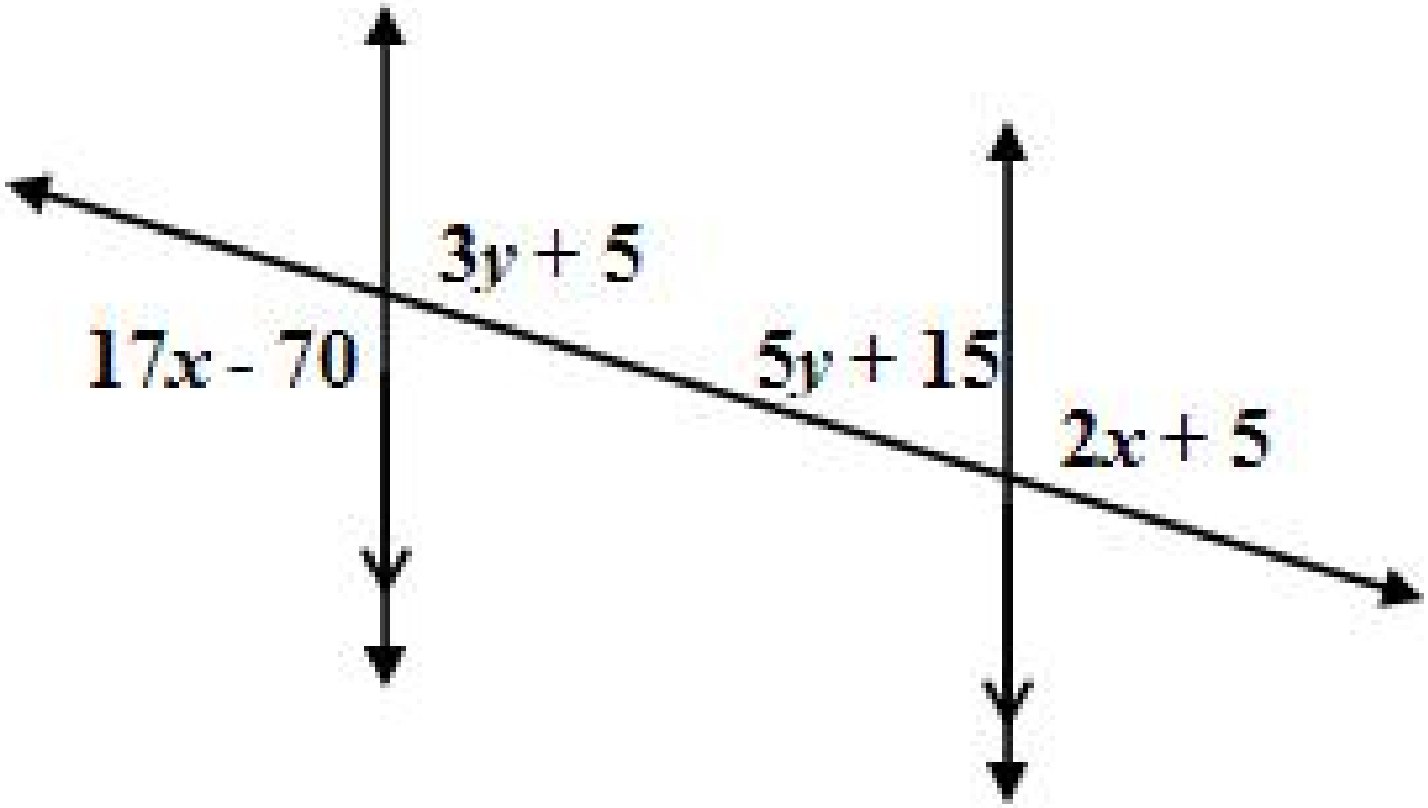
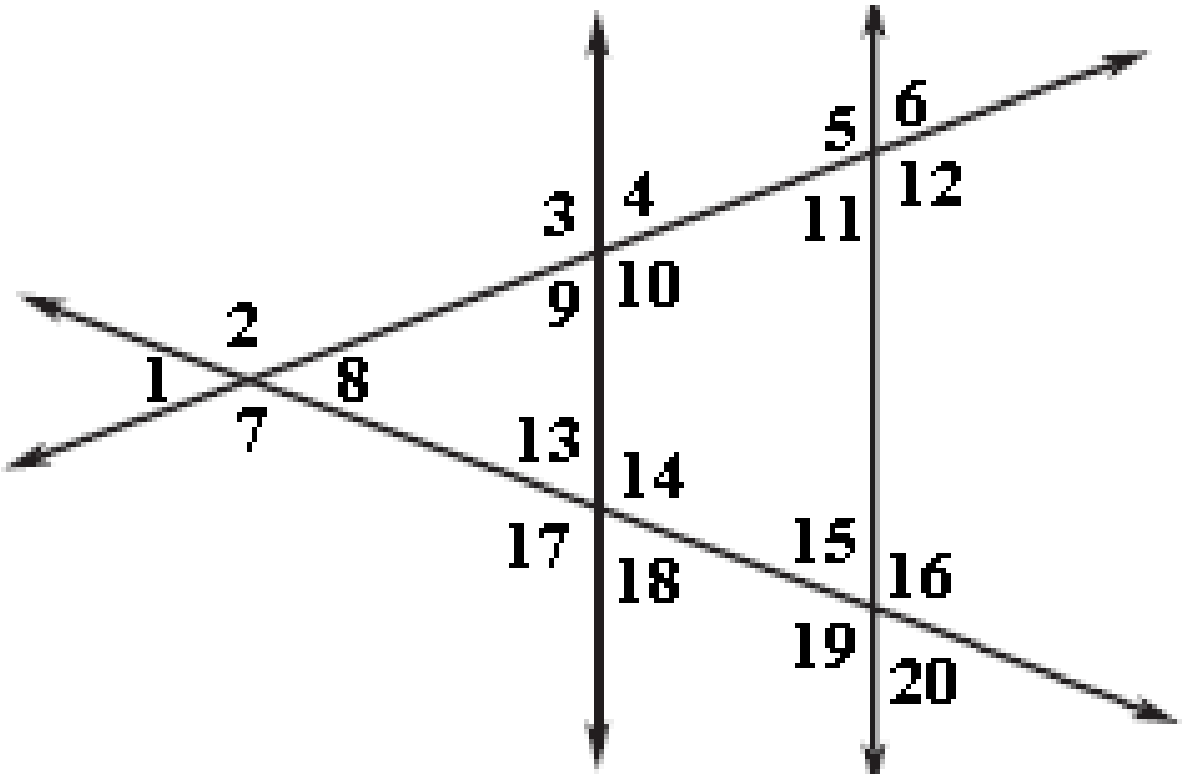
#1 Find X and Y:

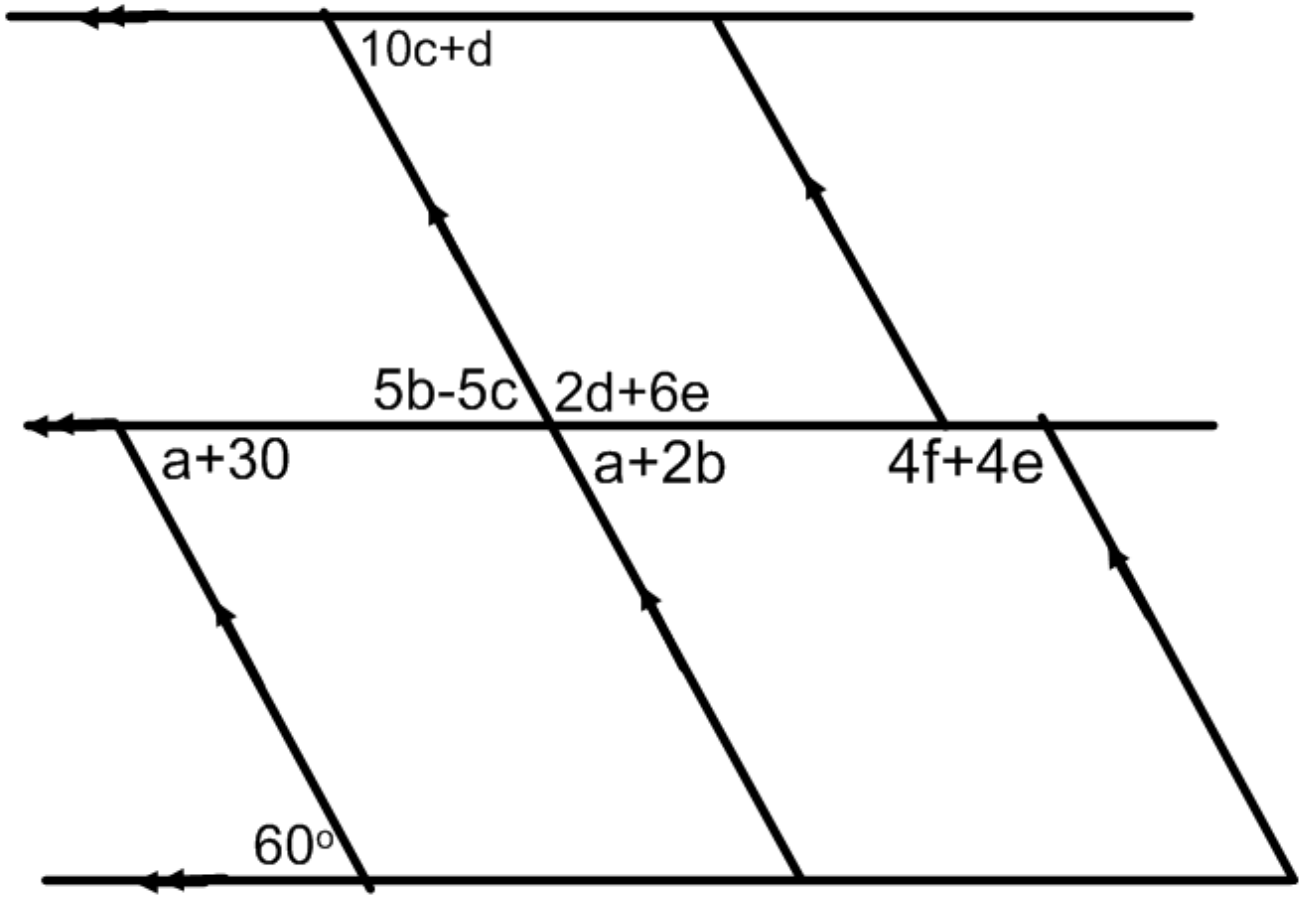


#2 Find all angle measures given…

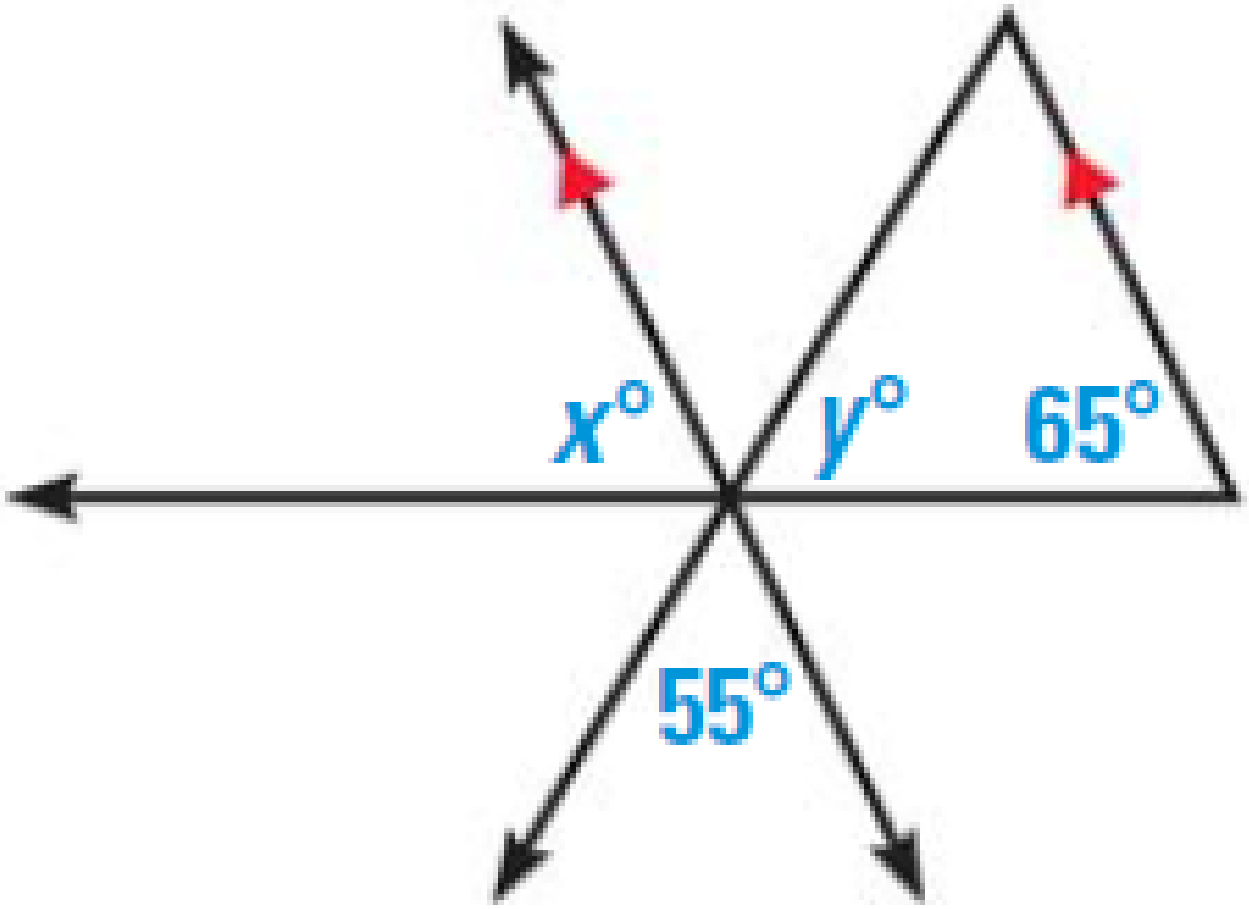
$\angle 4$ measures 71° and $\angle 8$ measures 37°.



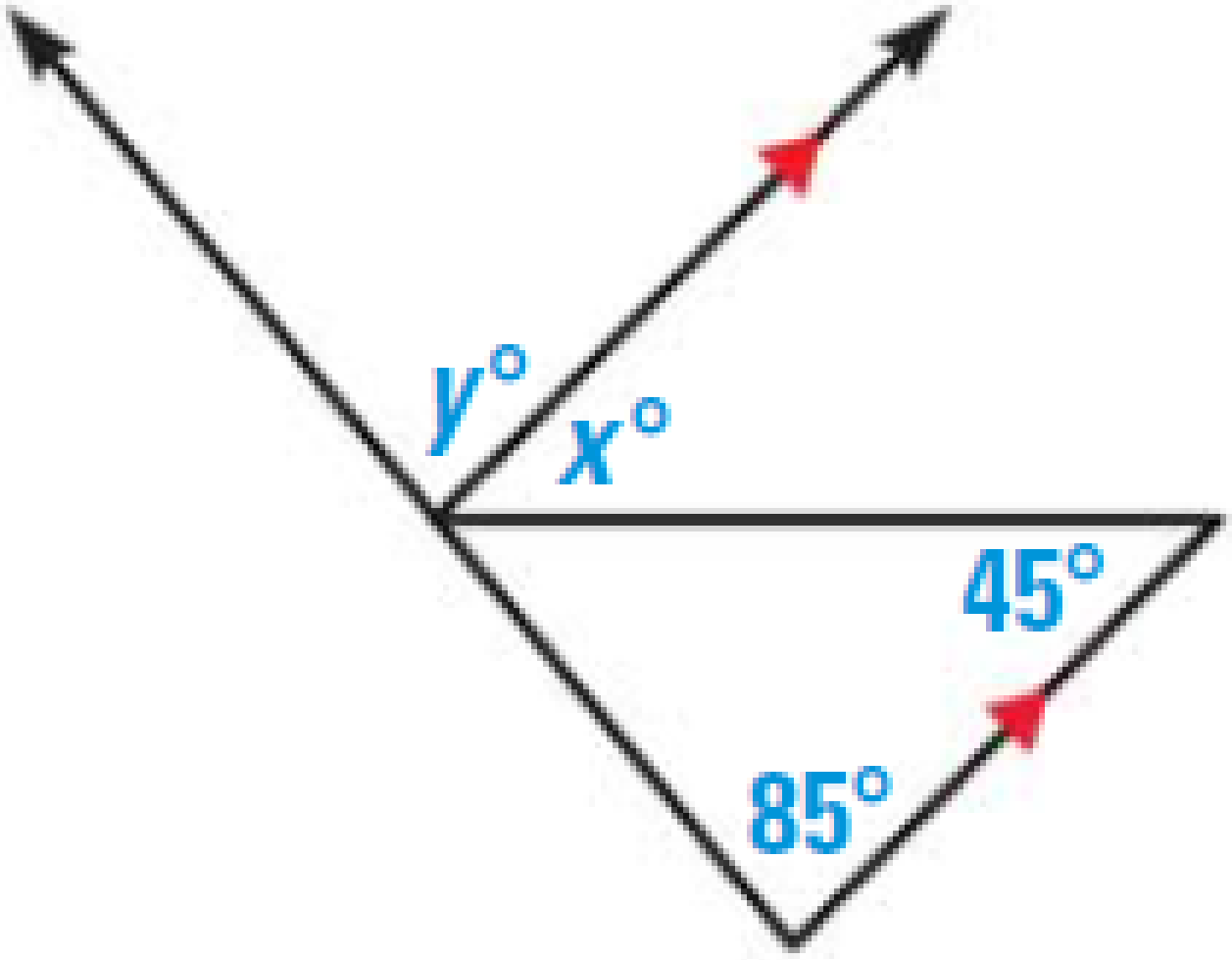
#3 Find a, b, c, d, e, f



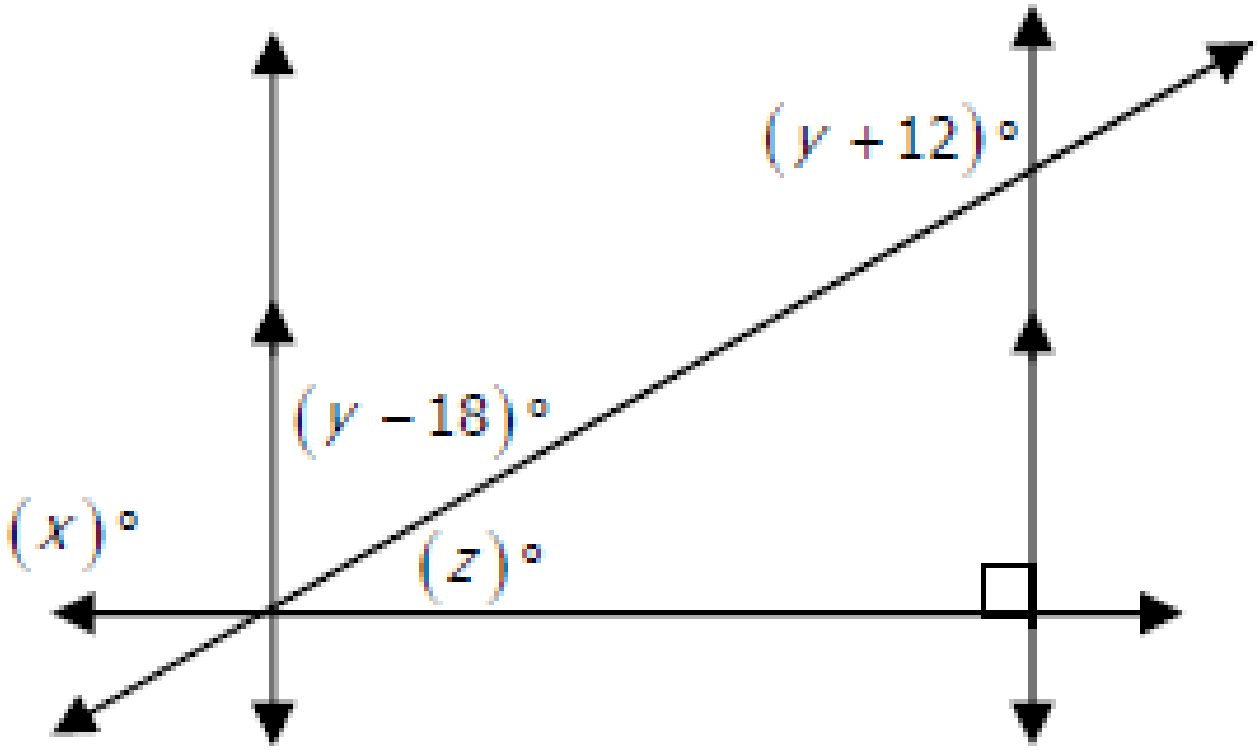
#4 Find X and Y:



#5 Find X and Y



#6 Find X, Y and Z



#7 ***a, b, c, d, e, f,*** **and** ***g*** **are lines.**

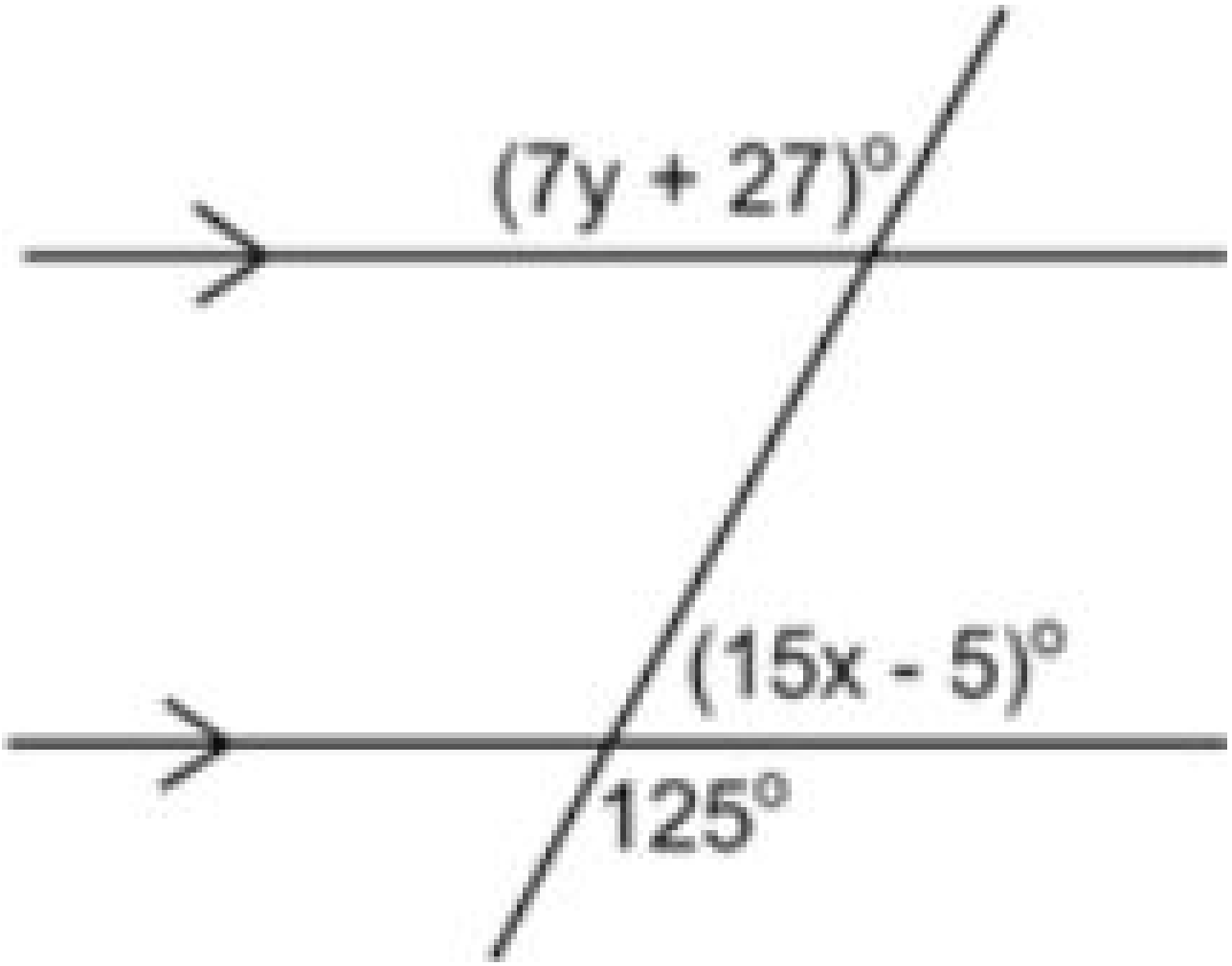
a//b
b ⊥ c
c ⊥ d
d //e
e//f
f ⊥ g

You will probably need to draw a picture to answer each of these questions….

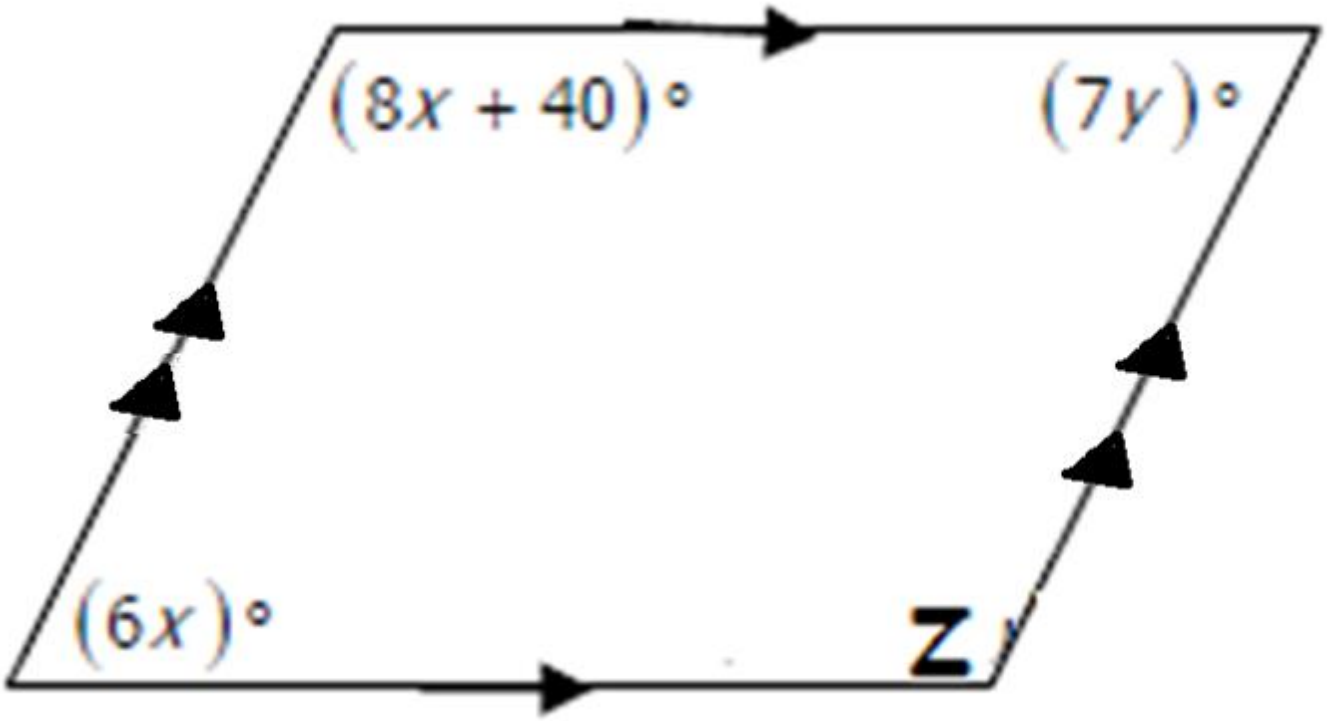
What is the relationship between……

1. **a and f?**
2. **c and f?**
3. **b and *g*?**
4. **b and *e*?**
5. **d and *g*?**

#8 Find X and Y



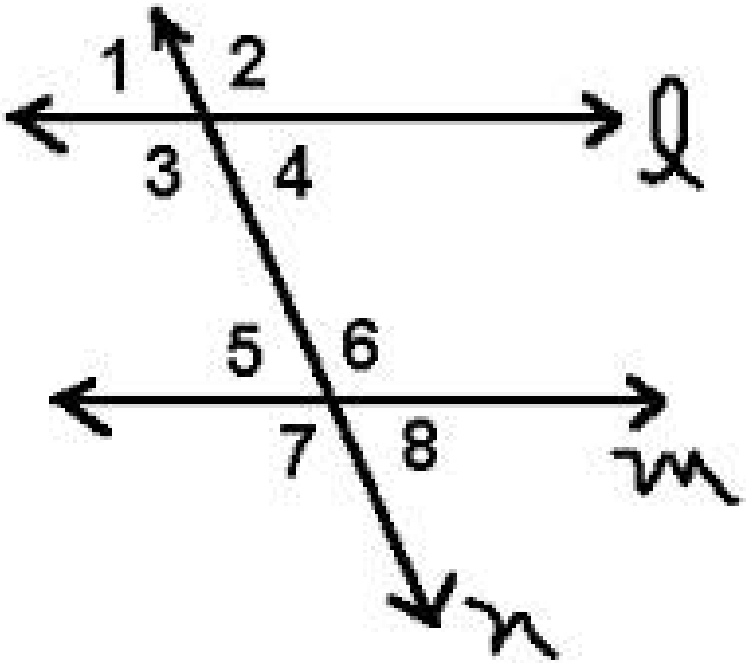
#9 Find X, Y and Z



#10

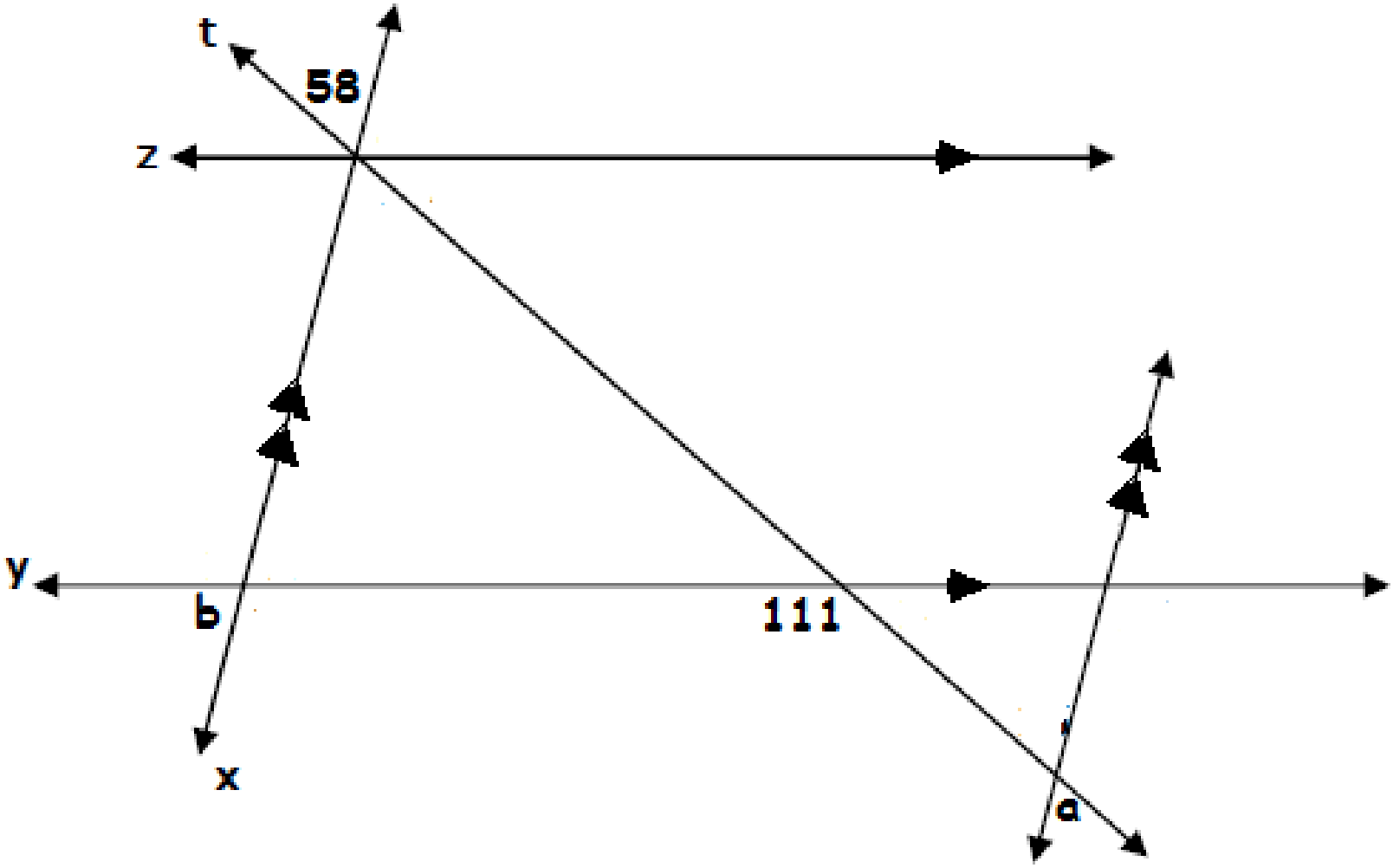
Given: $m\angle 7 = 115, \quad m\angle 4 = 65$

Prove: $L \,//\, M$

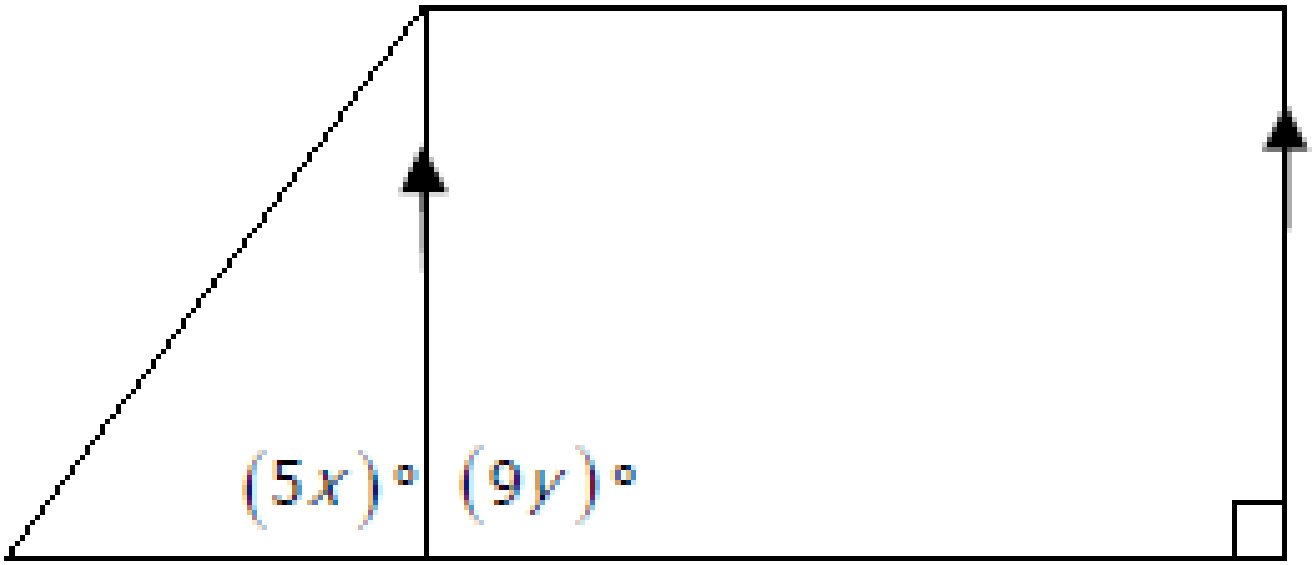


STATEMENTS	REASONS
1. $m\angle 7 = 115$	1. _____
2. $m\angle 4 = 65$	2. _____
3. _____	3. Vertical angles
4. $65 + 117 = 180$	4. _____
5. $m\angle 4 + m\angle 6 = 180$	5. _____
6. $\angle 4, \angle 6$ are supplements	6. Def Supplement
7. L //M	7. _____

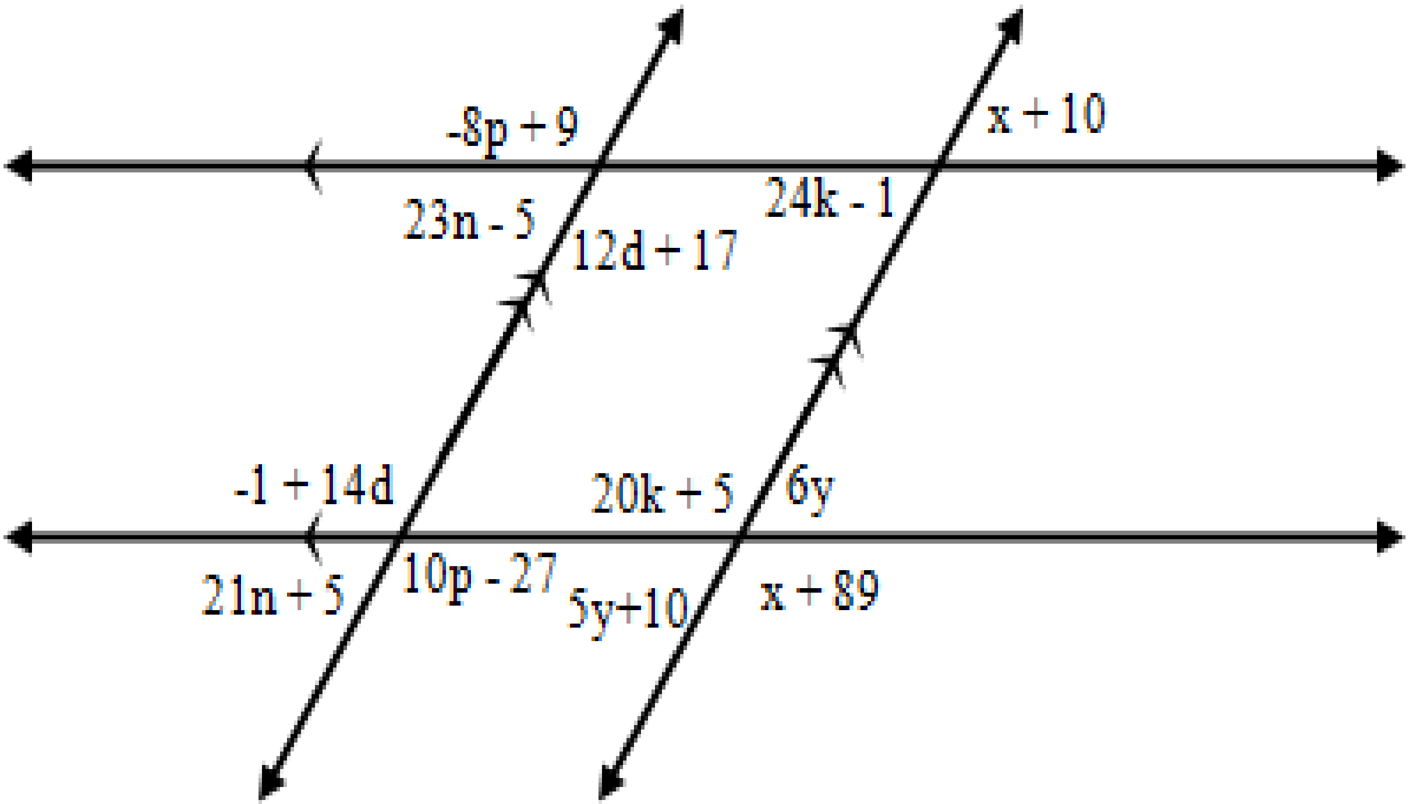
#11 Find a and b:



#12 Find X and Y.



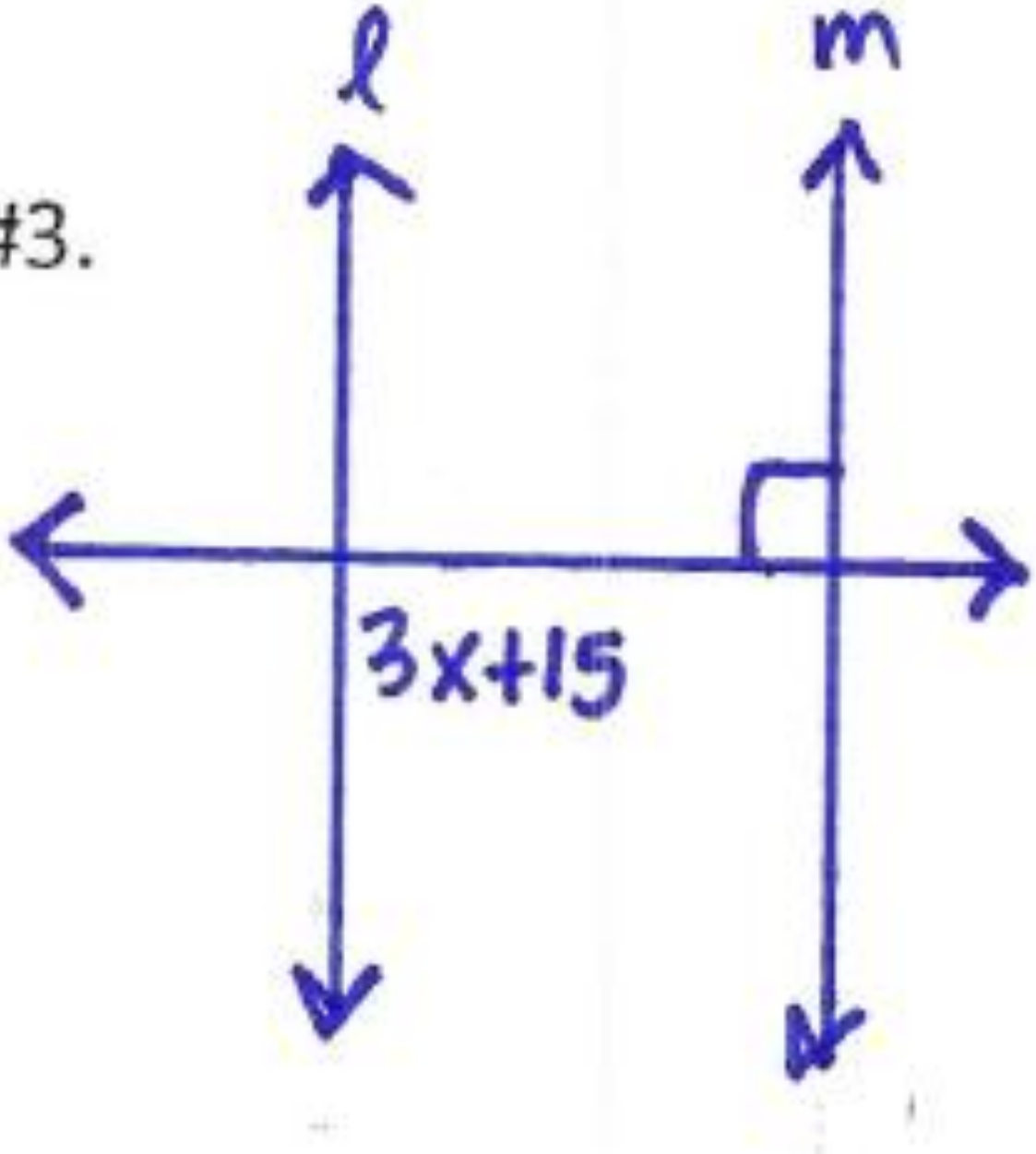
#13 Find x, y, p, n, k, d



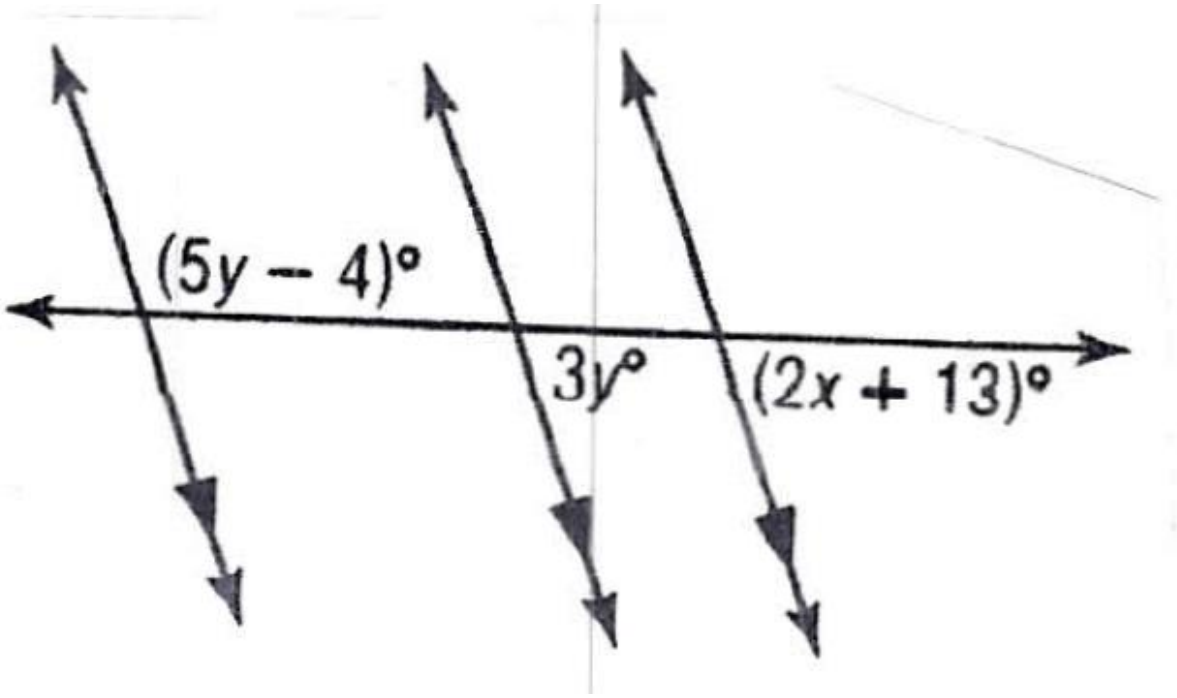
THIS ONE COUNTS FOR 2!!

#14 Find X if *L* // *M*.

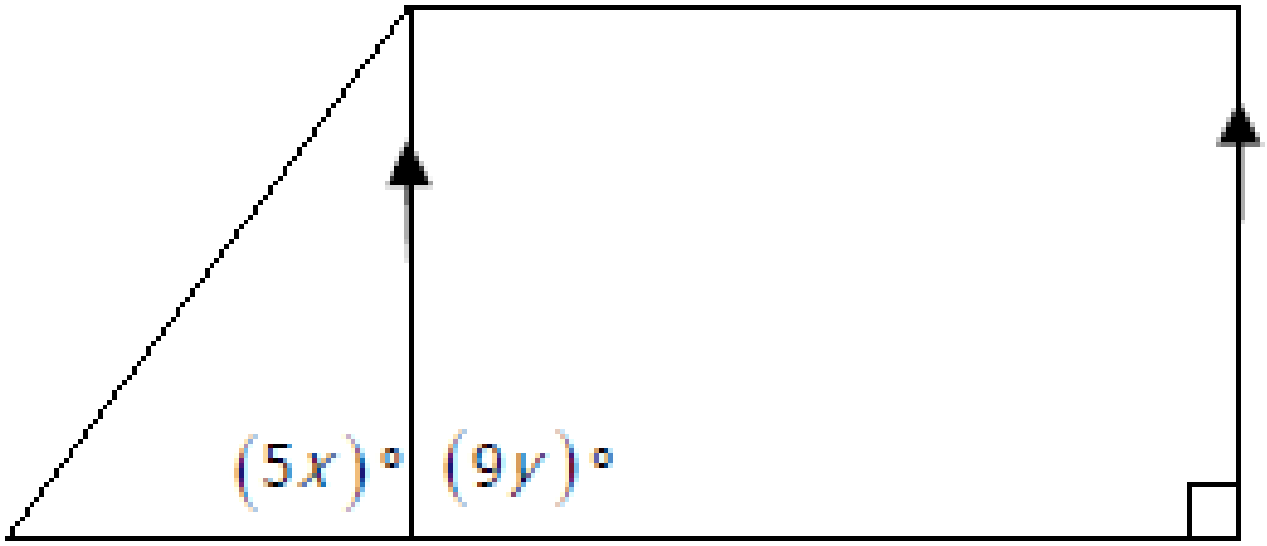
#3.



#15 Find X and Y

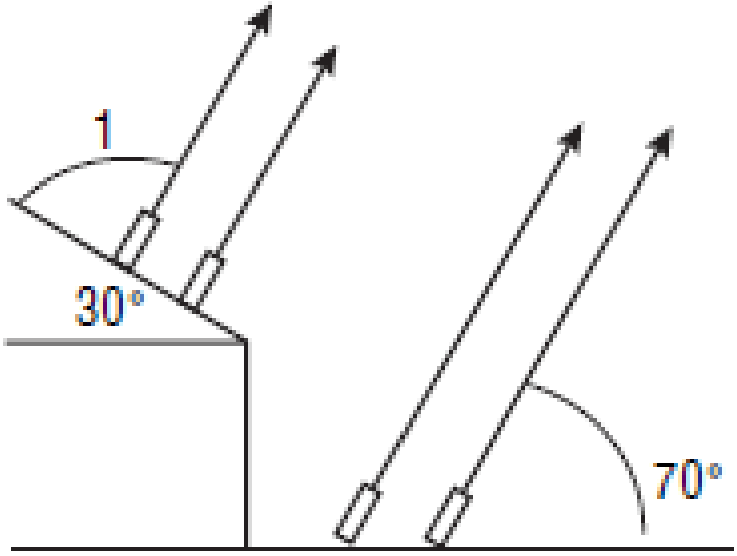


#16 Find X and Y



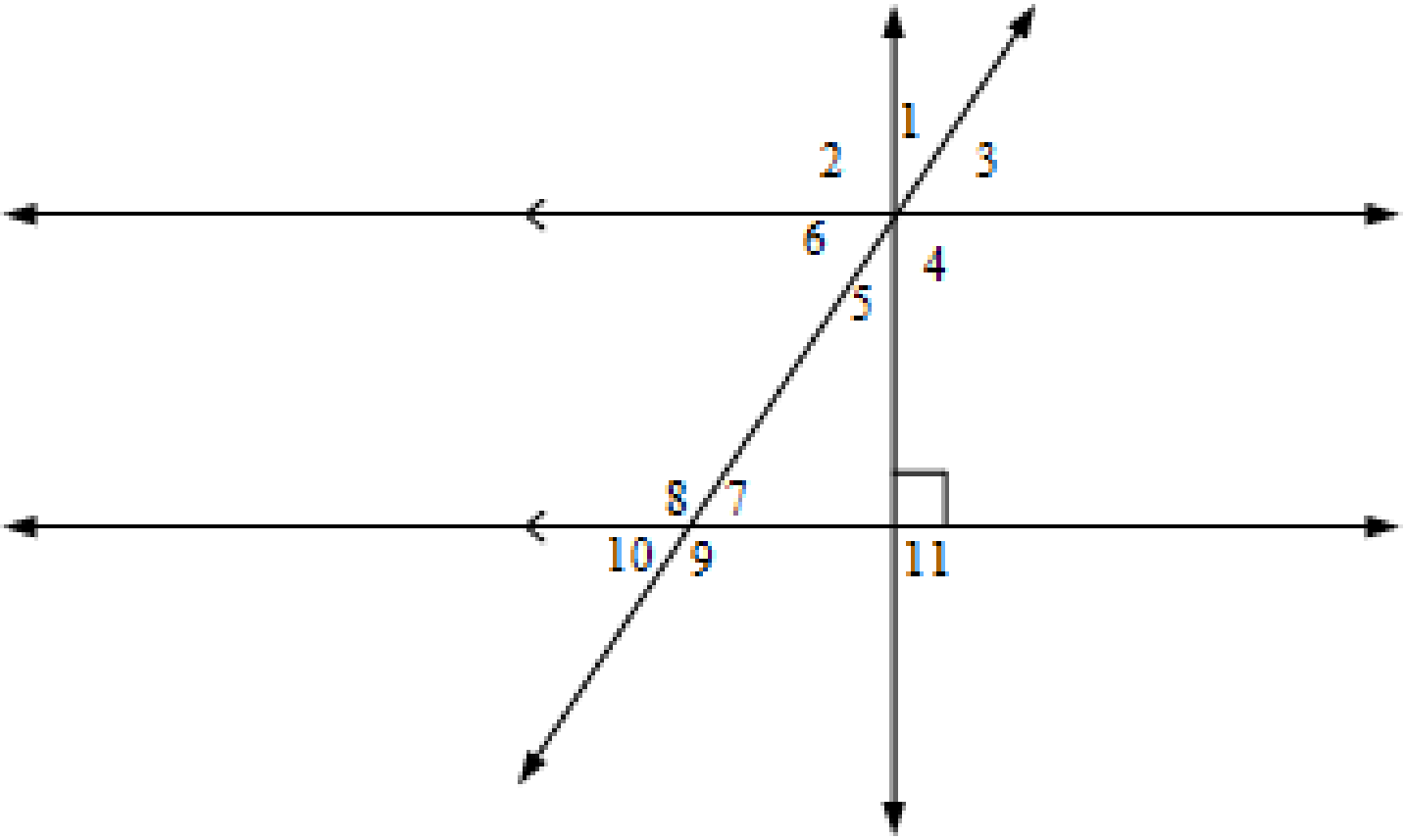
#17

FIREWORKS A fireworks display is being readied for a celebration. The designers want to have four fireworks shoot out along parallel trajectories. They decide to place two launchers on a dock and the other two on the roof of a building.



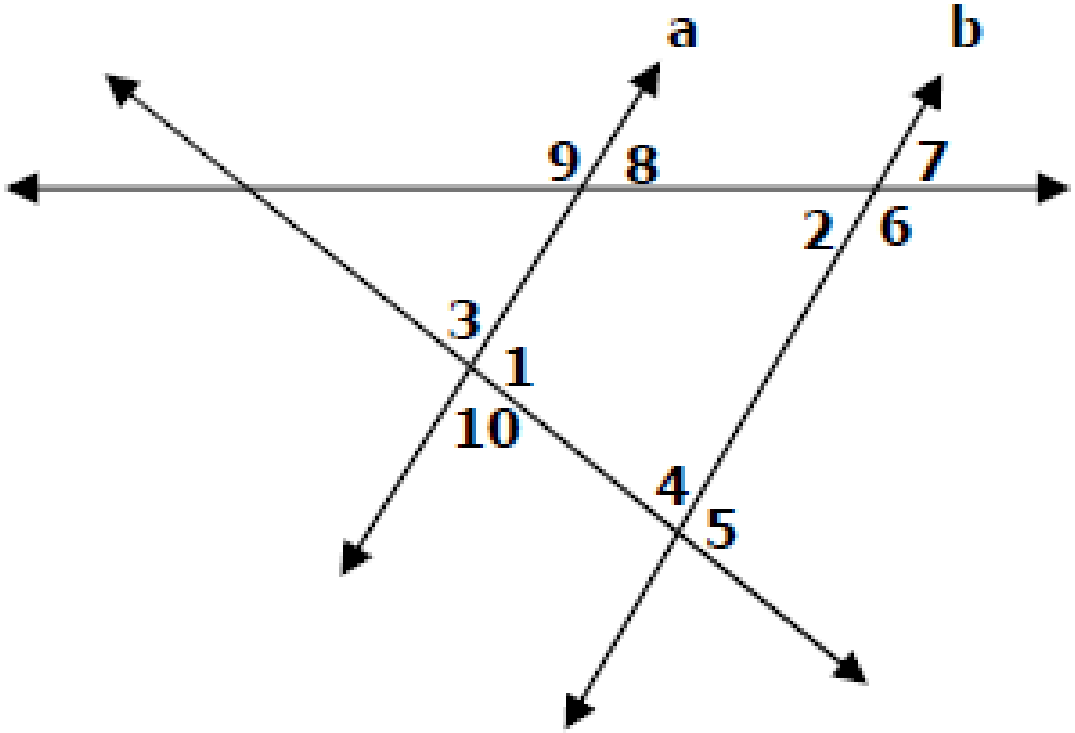
To pull off this display, what should the measure of angle 1 be?

#18 If the measure of angle 3 is 60^0, then find the measure of angle 9.



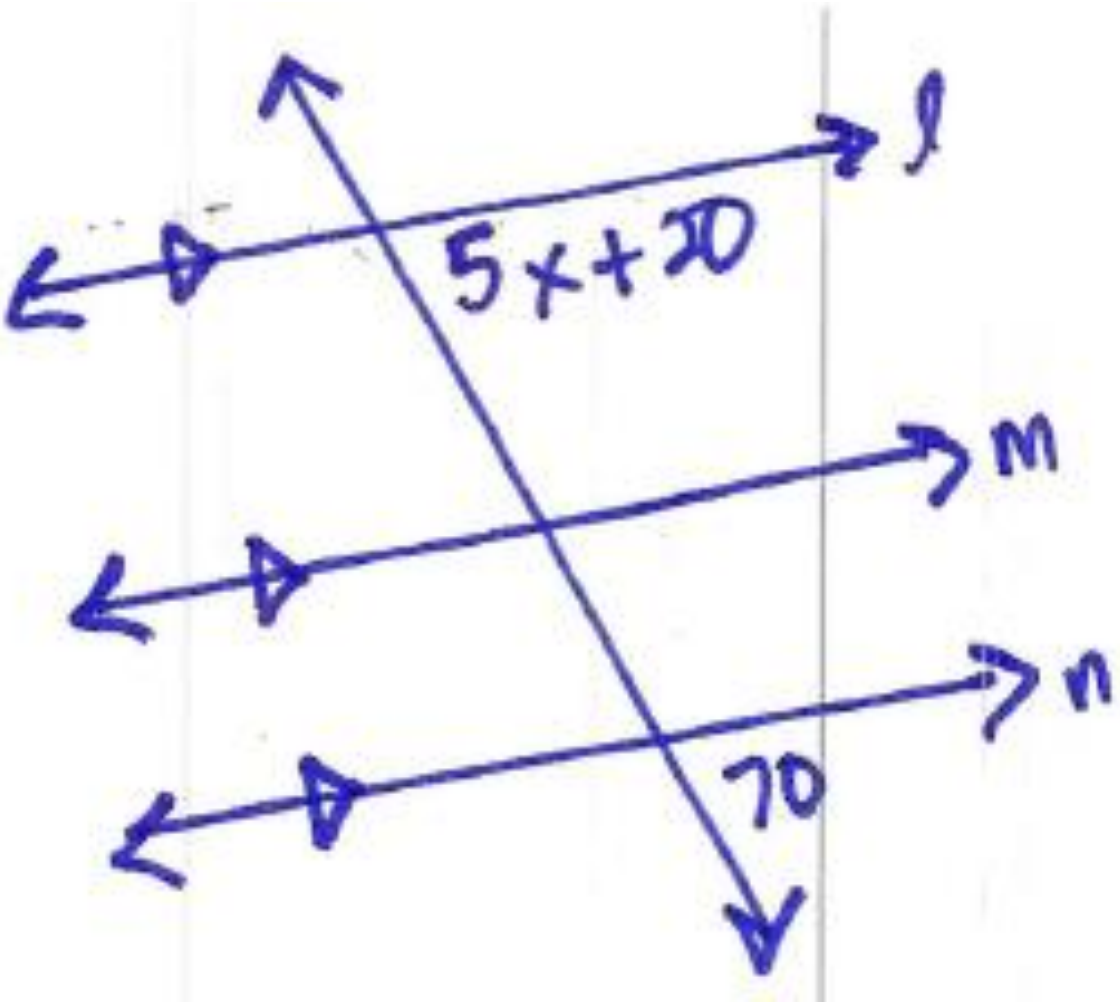
#19

In figure below $a \parallel b$, $m\angle 1 = 78°$, and $m\angle 2 = 47°$. Find measure of each angle.

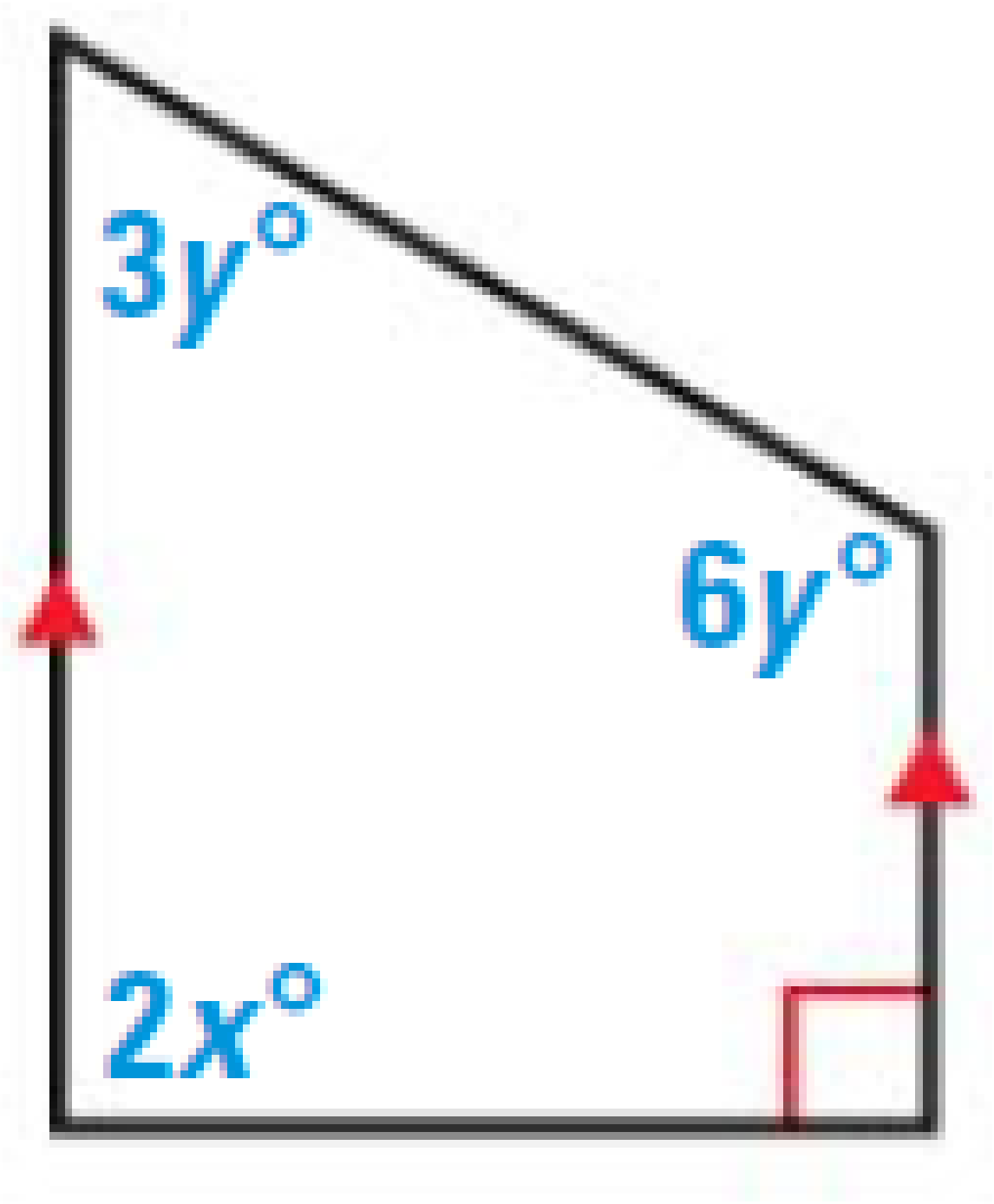


What are the measures of angles 5 and 9?

#20 Find X



#21 Find X and Y



#22 Find X and Y