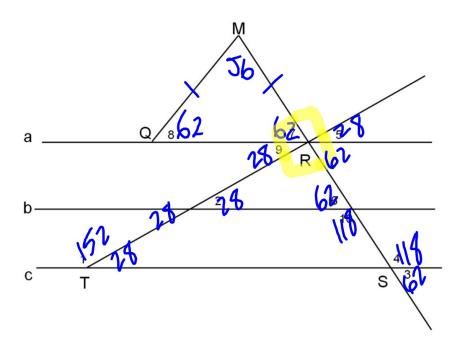
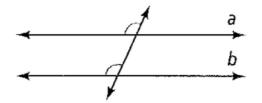
Given:  $a \parallel b \parallel c$  and  $m \angle M = 56^{\circ}$  and  $\overline{MQ} \cong \overline{MR}$  and  $\overline{MR} \perp \overline{TR}$ 

Find the measure of all numbered angles.

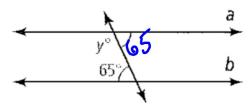


1. State the theorem or postulate that proves a // b.



Theorem/Postulate:

(UNV. CURRESP 2. State the theorem or postulate that proves a // b.



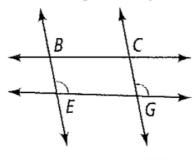
conv. alt int 2'5 thm.

Theorem/Postulate:

What is the value of y in order for a  $\sqrt{5?}$ 

$$y =$$

Which lines or segments are parallel? State the theorem or postulate that justifies your answer.

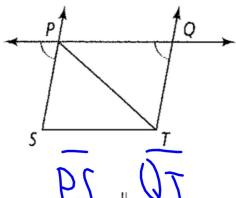


CG BE

Theorem/Postulate:

Conv. corres. ('5

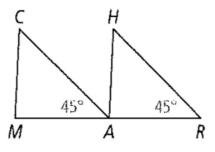
 Which lines or segments are parallel? State the theorem or postulate that justifies your answer.



Theorem/Postulate:

CONV. COPPESP.

Which lines or segments are parallel? State the theorem or postulate that justifies your answer.

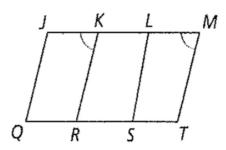


CA HR

HR conv. corresp

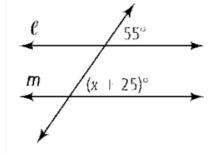
Theorem/Postulate:

6. Which lines or segments are parallel? State the theorem or postulate that justifies your answer.



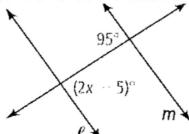
Theorem/Postulate: ()NV. ()WV.

7. Calculate the value of x for which  $\ell \parallel m$ 



COPRES X+25=55

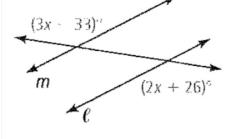
8. Calculate the value of x for which  $\ell \parallel m$ 



altint 2X-5=95 2X=100

$$x =$$

9. Calculate the value of x for which  $\ell \parallel m$ 

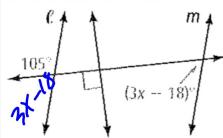


alt. ext 3y - 33 = 2x + 3

$$3x-33=2x+26$$
  
 $x - 33 = 26$ 

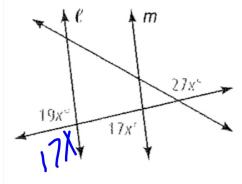
x =

10. Calculate the value of x for which  $\ell \parallel m$ 



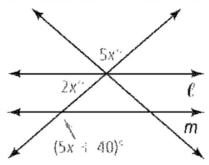
3X-18+105=180 3X+87=180X=31

11. Calculate the value of x for which  $\ell \parallel m$ 



19X+17X=18036X=180

12. Calculate the value of x for which  $\ell \parallel m$ 



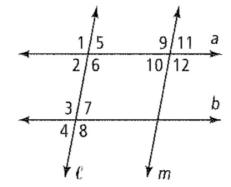
x = \_\_\_\_

13.  $\angle 2$  is supplementary to  $\angle 3$ 

a 16

Why?

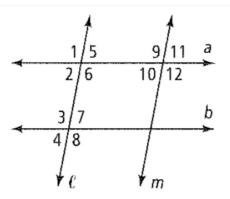
conv. SSInt.





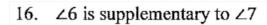
Why?

CONV. CORR



Why?

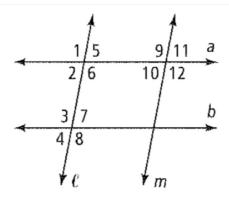
Cannot Determine



a 16

Why?

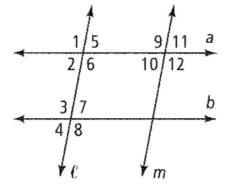
CONV. SS Int.

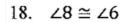


 $a \parallel b$ 

Why?

alt ext

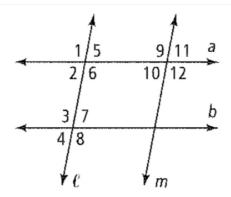




ab

Why?

(onv. corresp.



\_\_L\_\_\_\_\_

Why?

Conv. (orresp.

