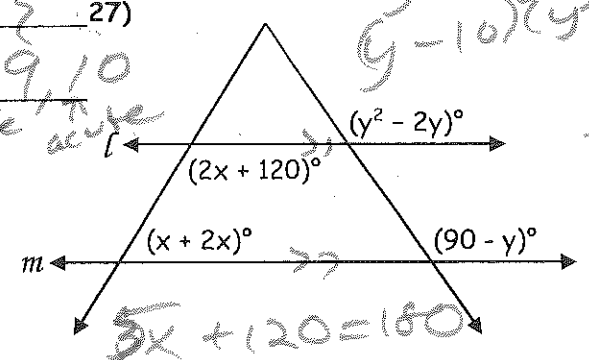


Solve for x and y so that  $\triangle P m$ .

$x = 12$  (27)

$y = -9, 10$



PROOFS:

29) Given:  $c \parallel d$  and  $\angle 10 \cong \angle 4$   
 Prove:  $a \parallel b$

STATEMENTS

- 1)  $c \parallel d$ ,  $\angle 10 \cong \angle 4$
- 2)  $\angle 10 \cong \angle 12$
- 3)  $\angle 4 \cong \angle 12$
- 4) all b

30) Given:  $\overline{PQ} \parallel \overline{RS}$  and  $\angle 1 \cong \angle 2$   
 Prove:  $\angle 4 \cong \angle 5$

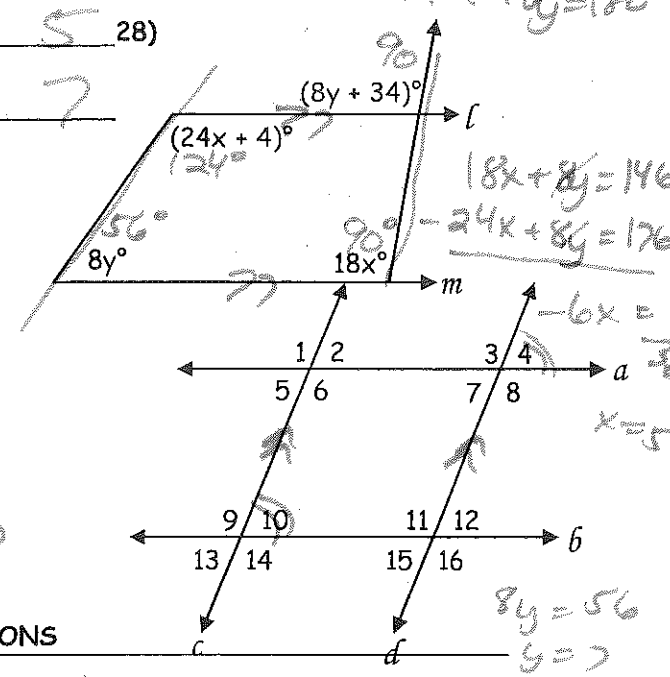
STATEMENTS

- ①  $\overline{PQ} \parallel \overline{RS}$ ,  $\angle 1 \cong \angle 2$
- ②  $\angle 1 \cong \angle 4$
- ③  $\angle 2 \cong \angle 5$
- ④  $\angle 1 \cong \angle 5$
- ⑤  $\angle 4 \cong \angle 5$

★ DON'T FORGET TO STUDY ALL YOUR NOTES, HOMEWORKS & QUIZZES! ★

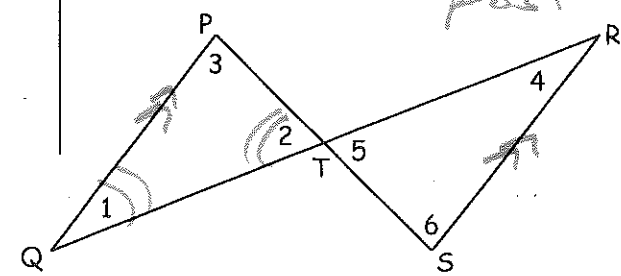
$y^2 - 2y = 90 - y$   
 $y^2 - 3y - 90 = 0$   
 $(y - 10)(y + 9) = 0$   
 $x = 5$  (28)

$y = 7$



REASONS

- 1) Given
- 2) Corr  $\angle$ s post
- 3) trans POC
- 4) conv of corr  $\angle$ s post



REASONS

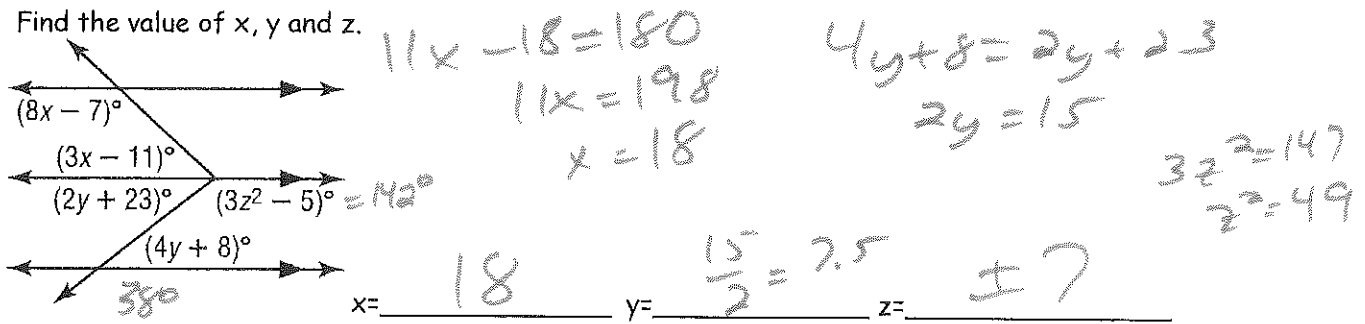
- ① Given
- ② Alt. Int  $\angle$ s Thm
- ③ Vert  $\angle$ s Thm
- ④ Trans POC Steps 1 & 3
- ⑤ Trans POC Steps 2 & 4

Mrs. [unclear]  
 Jason  
 Joe

8) Draw lines representing the distance between Line AB and Point S and Line m and point S



9) Find the value of x, y and z.



10) Using the figure at the right to answer each of the following questions.

a) A line skew to  $\overline{AB}$  that contains point C?

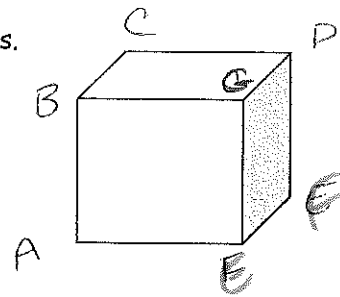
$\overline{CD}$  or  $\overline{CG}$  or  $\overline{CF}$  or  $\overline{CE}$

b) A point that is not coplanar to C, D and F

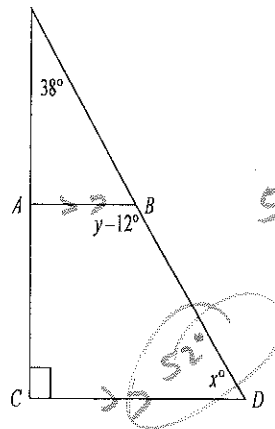
A or B or G or E

c) A plane perpendicular to Plane CDF

AEF or BCD



11) If  $\overline{AB} \parallel \overline{CD}$ , find x and y in the picture.



$$52 + y - 12 = 180$$

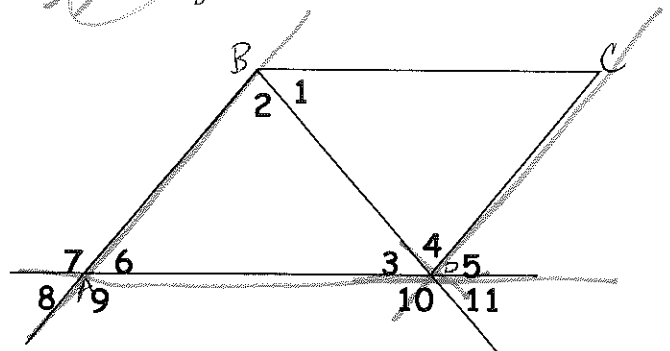
$$y = 140$$

12) Identify each pair of angles

Alt Angs a)  $\angle 2$  and  $\angle 4$

Vert Angs b)  $\angle 3$  and  $\angle 11$

SS Angs c)  $\angle 2$  and  $\angle 6$



13) In #12, if  $\angle 6 \cong \angle 5$ , then which lines have to be parallel? What other angle relationships would we then know about?

$\overline{AB} \parallel \overline{CD}$  by conv or corr Angs post  
 $\angle 5$  &  $\angle 7$  are supp,  $m\angle 9 = m\angle 3 + m\angle 4$   
 $m\angle 2 = m\angle 4 + m\angle 5$