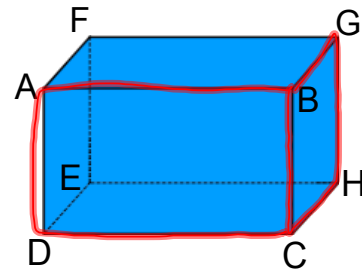


1. Use Example 1 on page 127:

a. Name all planes that are parallel to plane AEF.

Plane BHG



b. Name the intersection of plane ABC  
plane BGH

$\overline{BC}$  or  $\overline{CB}$

2. Use Example 3 on pg. 128. Identify each pair of angles as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior angles*.

a. angles 7 and 3 *corresponding*

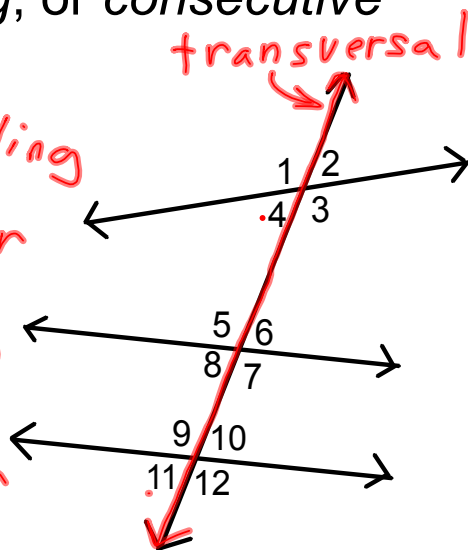
b. angles 8 and 2 *alt. exterior*

c. angles 4 and 11 *corresponding*

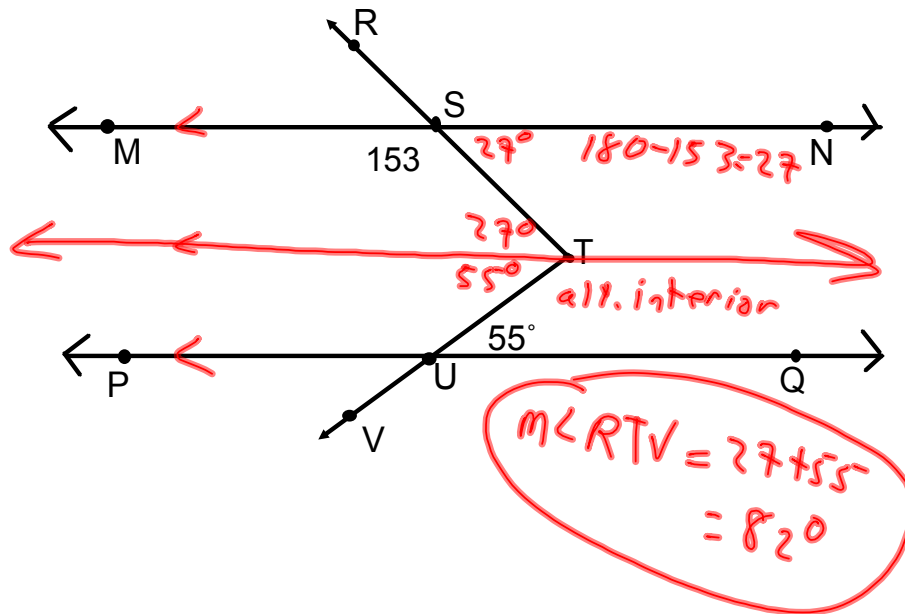
d. angles 7 and 1 *alt. exterior*

e. angles 3 and 9 *alt. interior*

f. angles 7 and 10 *consec. interior*



3. What is the measure of  $\angle RTV$ ?

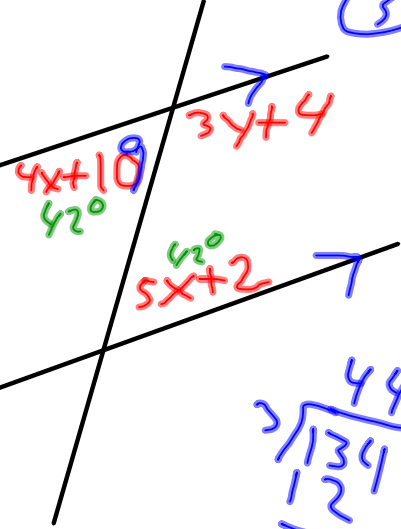


① 4.)

$$\begin{array}{r}
 4x + 10 = 5x + 2 \\
 -4x \quad -4x \\
 \hline
 10 = x + 2 \\
 -2 \quad -2 \\
 \hline
 8 = x
 \end{array}$$

②  $4(8) + 10$   
 $32 + 10 = 42^\circ$

Find x and y



③

$$\begin{array}{r}
 3y + 4 + 42 = 180^\circ \\
 3y + 46 = 180^\circ \\
 -46 \quad -46 \\
 \hline
 3y = 134 \\
 \frac{3y}{3} = \frac{134}{3} \\
 y = 44.\bar{6}
 \end{array}$$

$$\begin{array}{r}
 44 \\
 3 \overline{)134} \\
 \underline{12} \phantom{0} \\
 14 \\
 \underline{12} \\
 20
 \end{array}$$

5. Determine whether line FG and line HJ are *parallel*, *perpendicular*, or *neither*.

*same flip + switch*

F (4, 2), G (6, -3), H (-1, 5) J (-3, 10)

$$m_{FG} = \frac{-3-2}{6-4} = \frac{-5}{2} \quad \text{parallel}$$

$$m_{HJ} = \frac{10-5}{-3-1} = \frac{5}{-2}$$

6. Find the slope of the line that contains the given points.

(-4, -3) (2, 5)

$$m = \frac{\Delta y}{\Delta x} = \frac{5 - (-3)}{2 - (-4)} = \frac{8}{6} = \boxed{\frac{4}{3}}$$