

# ## 2-1 Prac #

## Vocab: transversal

### Angles

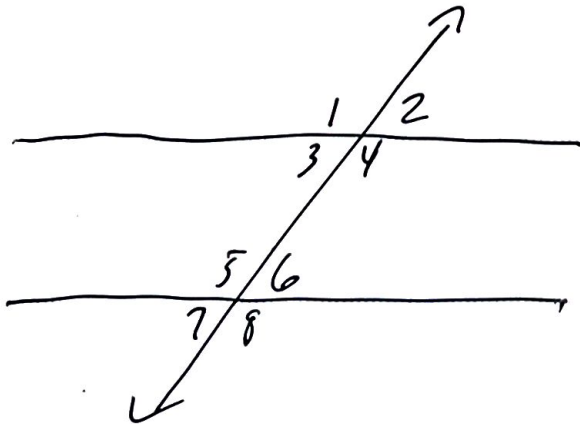
Corresponding : same sides of transversal  
same position of parallel lines

Alternate Interior : opposite sides of trans.  
inside parallel lines

Alternate Exterior : opposite sides of trans  
outside parallel lines

Same Side Interior } same sides of trans.  
Consecutive interior } inside parallel lines

Same side Exterior : same side of trans  
outside parallel lines



$\angle 6 + \angle 5 = \text{Supplementary}$

$\angle 1 + \angle 5 = \text{Corresponding}$

$\angle 3 + \angle 6 = \text{Alt Int.}$

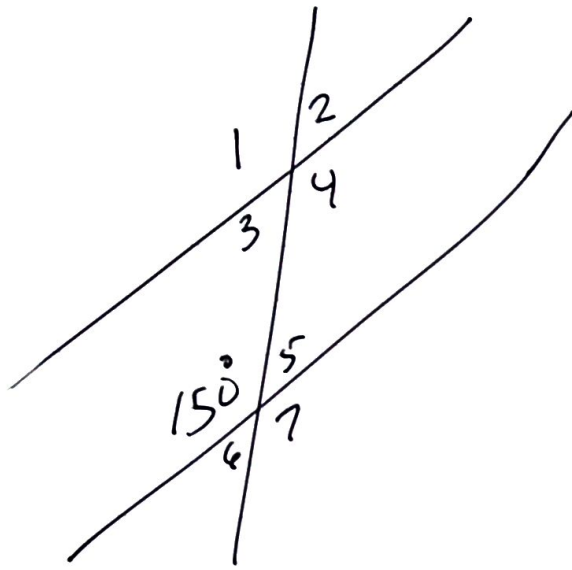
$\angle 2 + \angle 7 = \text{Alt Ext}$

$\angle 4 + \angle 6 = \text{Same side Int}$

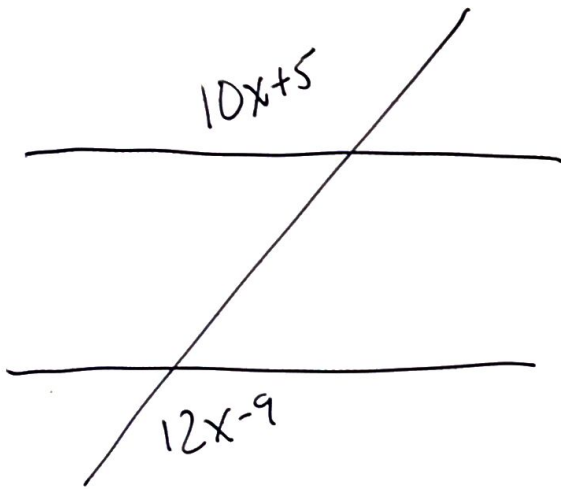
$\angle 2 + \angle 8 = \text{Same side Ext}$

$\angle 5 + \angle 8 = \text{Vertical}$

# #2-1 Prac cont. ##



- $\angle 1 = 150$  Cor
- $\angle 2 = 30$  Supp
- $\angle 3 = 30$  Vertical
- $\angle 4 = 150$  Alt Int
- $\angle 5 = 30$  Supp
- $\angle 6 = 30$  Alt Ext
- $\angle 7 = 150$  Vertical



Solve for  $X$  & the degree

$$10x+5 = 12x-9 \quad \text{Alt Ext}$$

$$\begin{array}{r} 5 = 2x-9 \\ +9 \qquad +9 \end{array}$$

$$\frac{14}{2} = \frac{2x}{2}$$

$$\boxed{7 = x}$$

$$10(7)+5 = \boxed{75}$$