

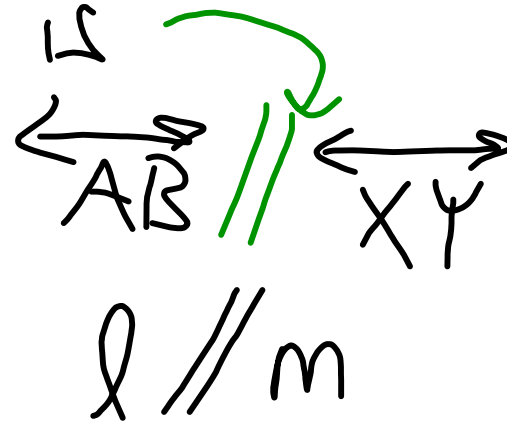
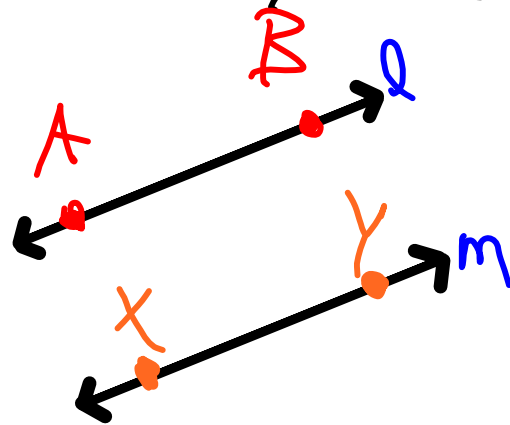
5.4

Feb. 01, 2007

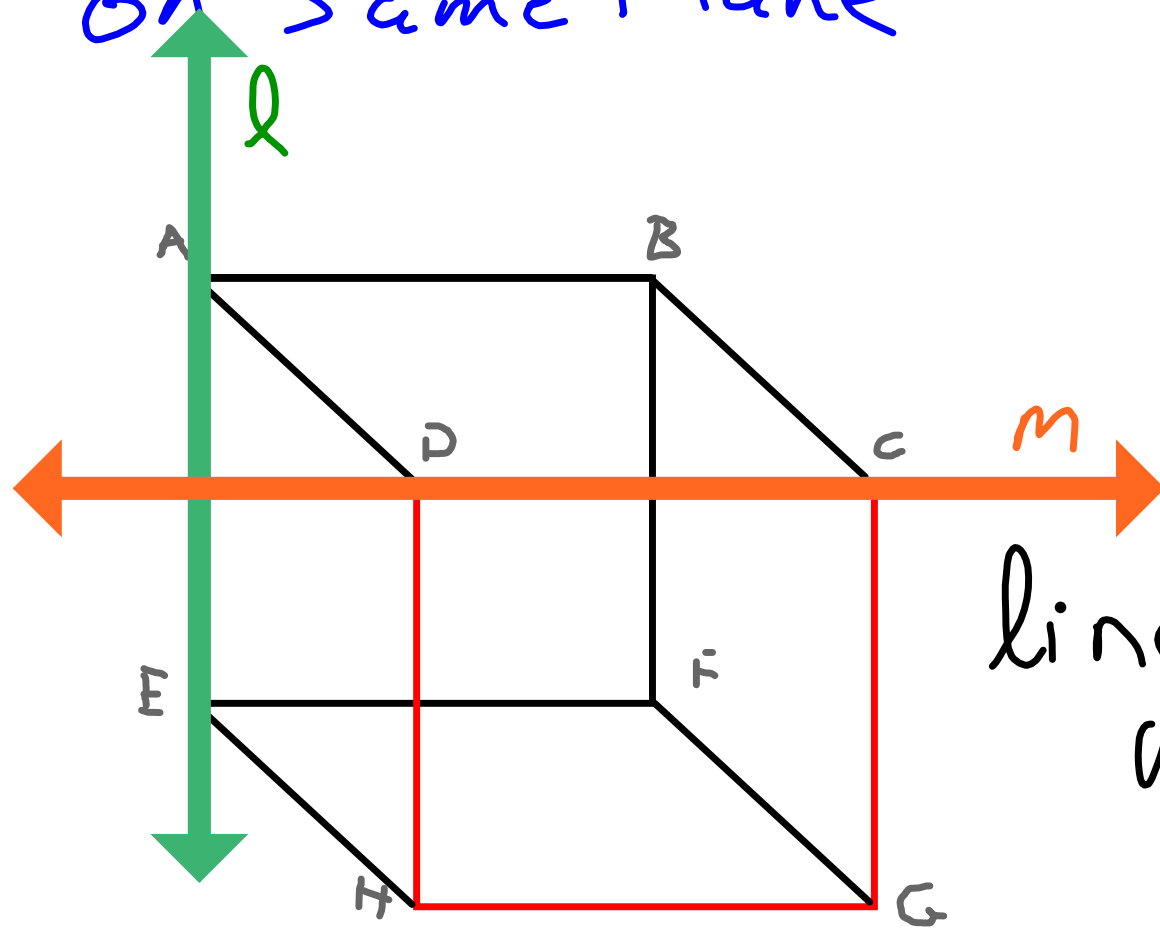
# Parallel / Transversals / + Angles

Parallel Lines: 2 or More lines  
that are in the Same Plane &  
Never Intersect

The Symbol is

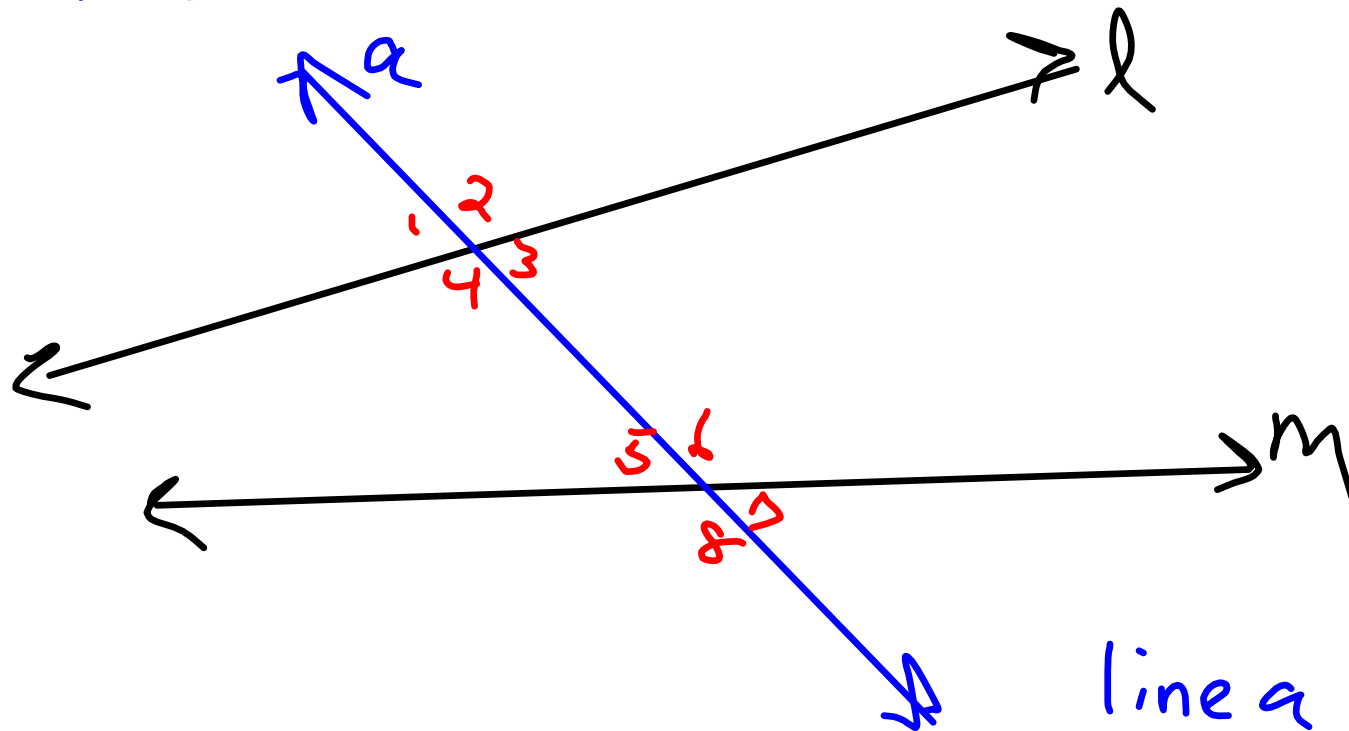


Skew lines: 2 or More Lines  
that are not Parallel. & not  
on Same Plane

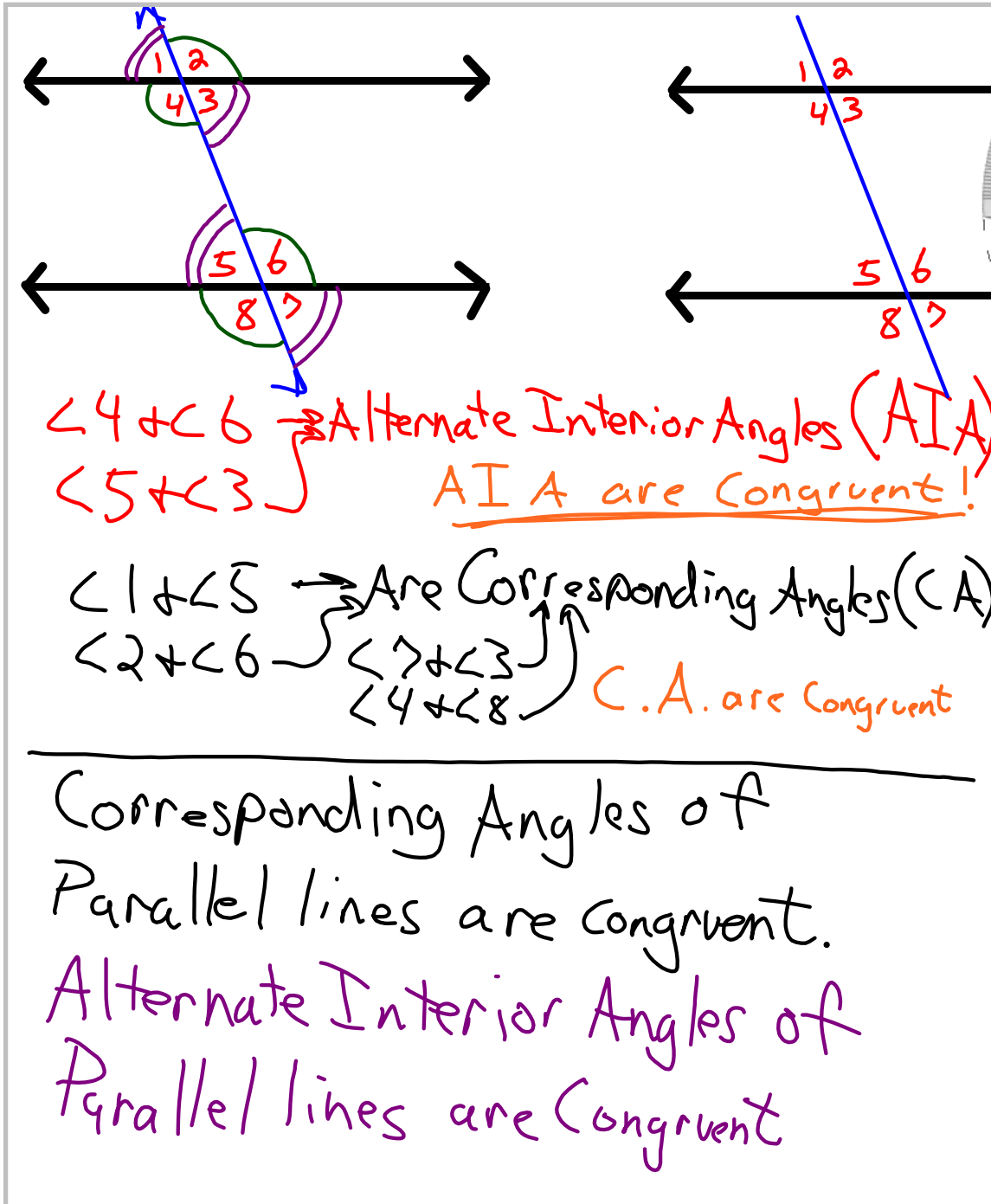


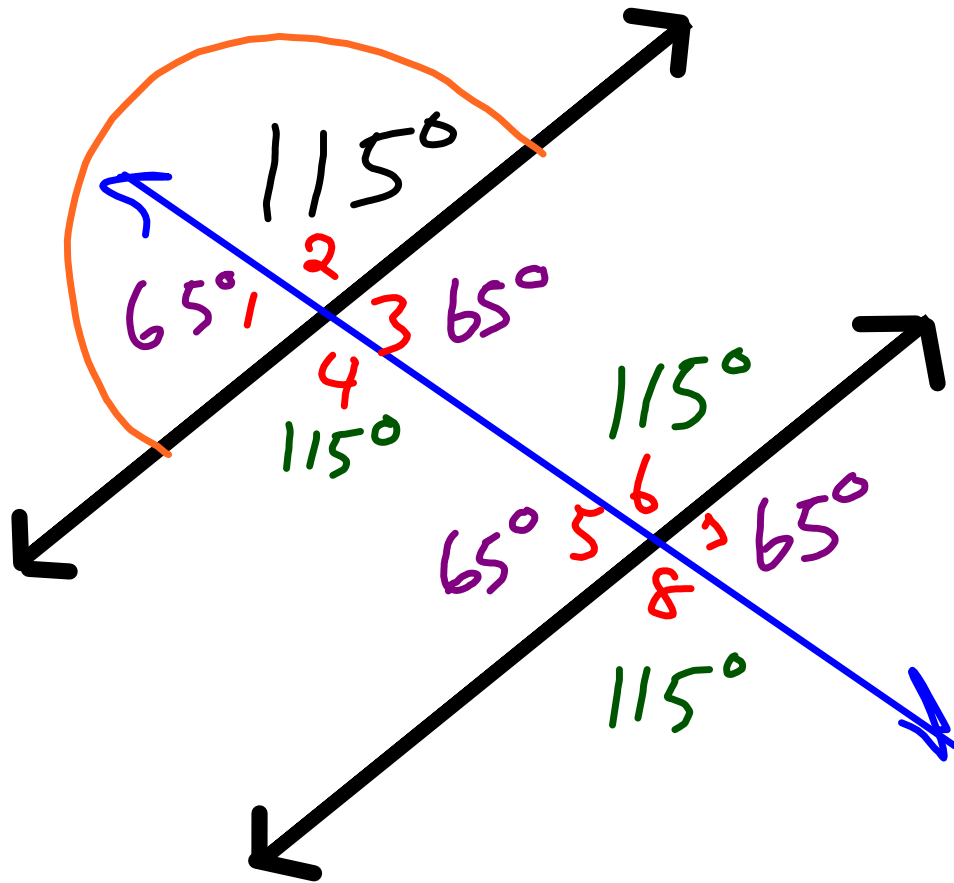
line l & line m  
are skew!

Transversal: A line that intersects  
2 other lines.



line  $a$  is  
a transversal  
to lines  $l$  &  
 $m$ .





$$m\angle 1 = 65^\circ$$

$$m\angle 2 = 115^\circ$$

$$m\angle 3 = 65^\circ$$

$$m\angle 4 = 115^\circ$$

$$m\angle 5 = 65^\circ$$

$$m\angle 6 = 115^\circ$$

$$m\angle 7 = 65^\circ$$

$$m\angle 8 = 115^\circ$$

$$\underline{3y+4} + \underline{5y+4} = 180$$

$$\underline{8y+8} = 180$$

$$\underline{-8} \quad \underline{-8}$$

$$\underline{8y} = \underline{172}$$

$$\underline{8} \quad \underline{8}$$

$$y = 21.5$$

$$\underline{3(21.5)} + 4 = m\angle 5$$

$$\underline{64.5} + 4 = m\angle 5$$

$$68.5 = m\angle 5$$

$$m\angle 1 = 68.5^\circ$$

$$m\angle 2 = 111.5^\circ$$

$$m\angle 3 = 68.5^\circ$$

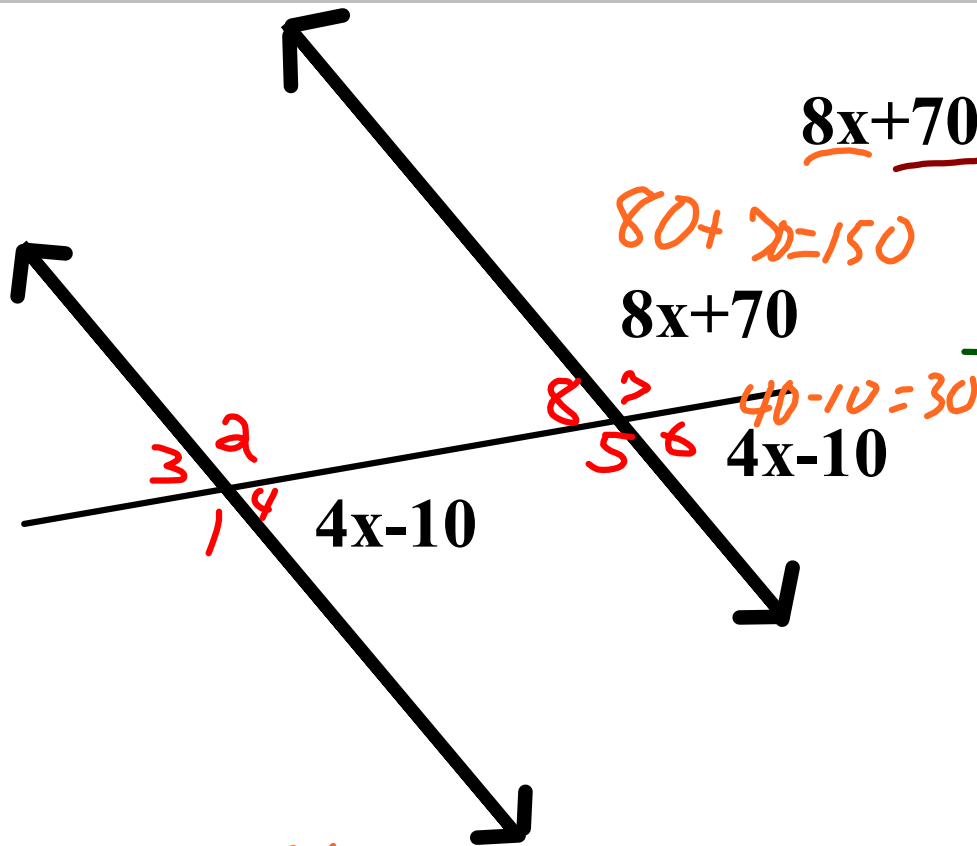
$$m\angle 4 = 111.5^\circ$$

$$m\angle 5 = 68.5^\circ$$

$$m\angle 6 = 111.5^\circ$$

$$m\angle 7 = 68.5^\circ$$

$$m\angle 8 = 111.5^\circ$$



$$\underline{8x+70} + \underline{4x-10} = 180$$

$$80 + x = 150 \quad 12x + 60 = 180$$

$$8x+70$$

$$\underline{-60 \quad -60}$$

$$8x \quad 40-10=30$$

$$4x-10$$

$$\underline{12x = 120}$$

$$\underline{12 \quad 12}$$

$$x = 10$$

$$m\angle 1 = 150$$

$$m\angle 2 = 150$$

$$m\angle 3 = 30$$

$$m\angle 4 = 30$$

$$m\angle 5 = 150$$

$$m\angle 6 = 30$$

$$m\angle 7 = 150$$

$$m\angle 8 = 30$$

O.T.L.

DPG 156: Exp. 1-14(all)

Py: 157: 9-16 all

To be turned  
in!

+

PL WK 5.4

get it from  
Bin.