

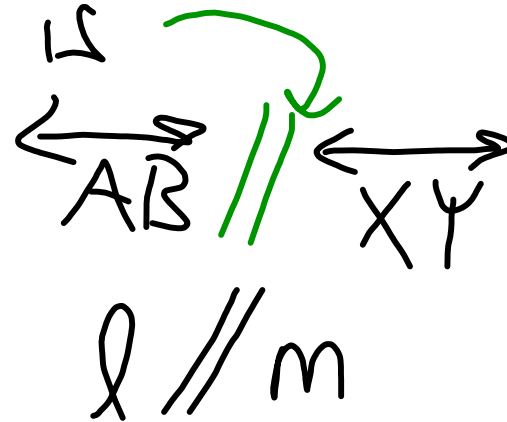
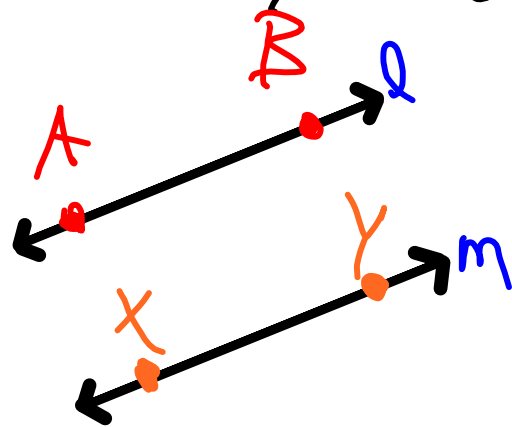
5.4

Feb. 01, 2007

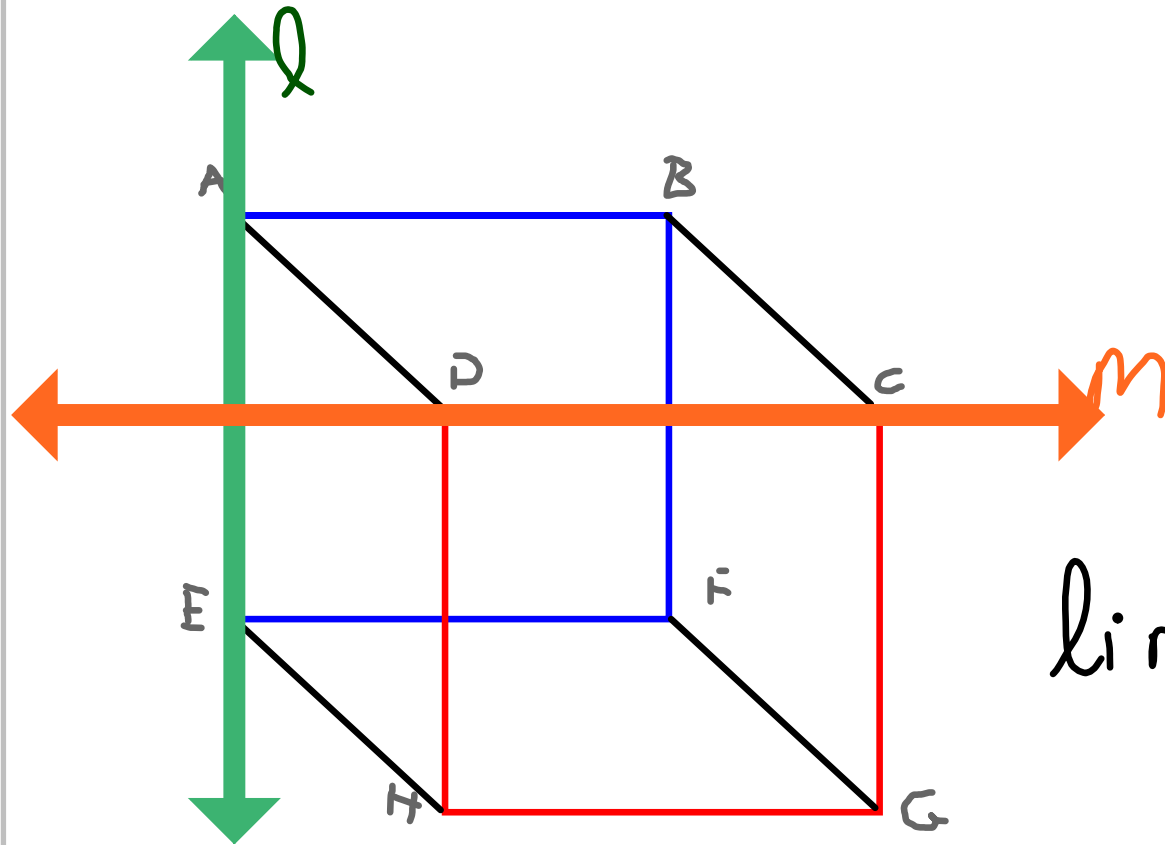
Parallel / Transversals / + Angles

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

The Symbol is

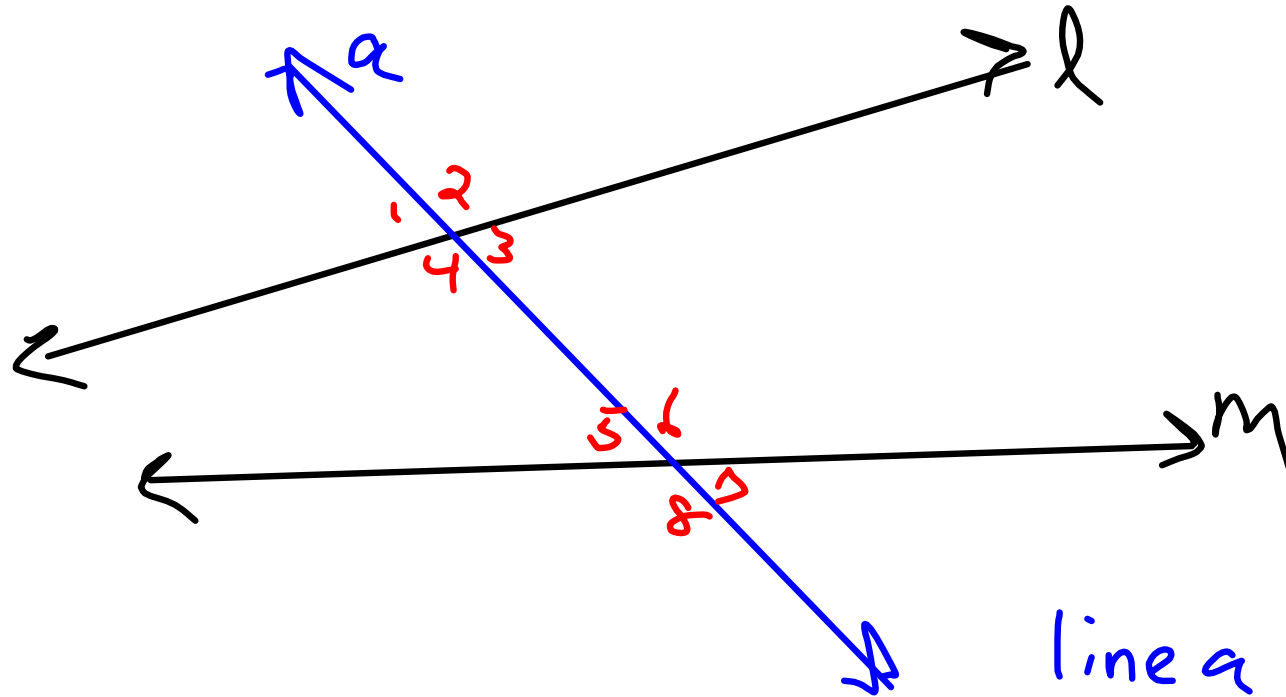


Skew lines: 2 or More Lines
that are not Parallel. & not
on Same Plane

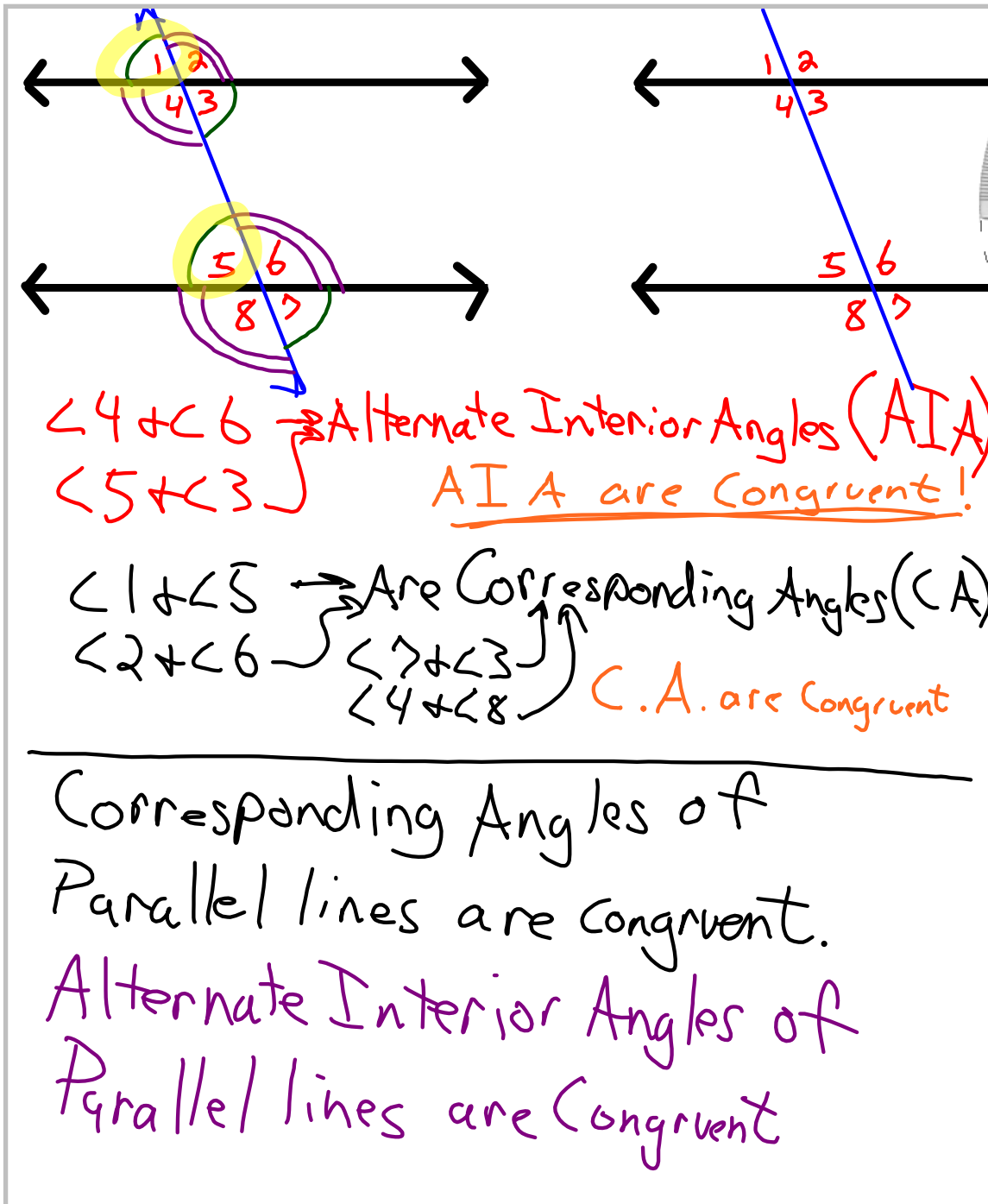


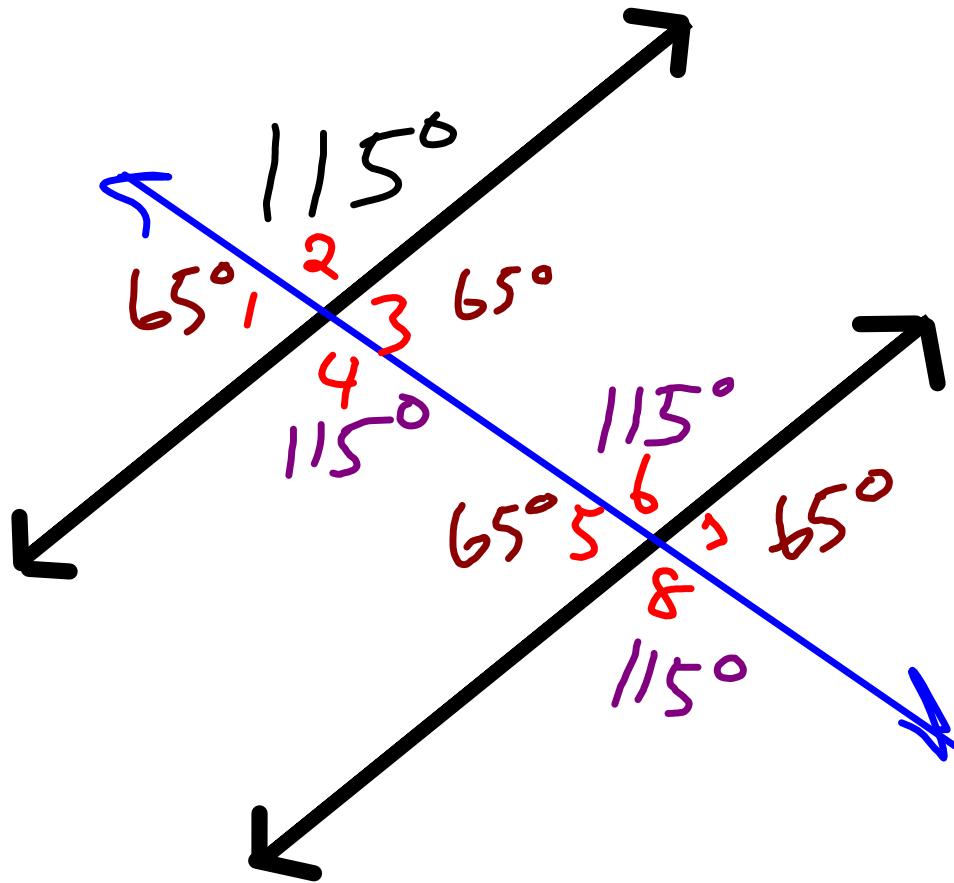
line l & line m
are Skew!

Transversal: A line that intersects
2 other lines.



line a is
a transversal
to lines l &
 m .





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

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

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

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

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

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

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

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

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

$$8y + 8 = 180$$

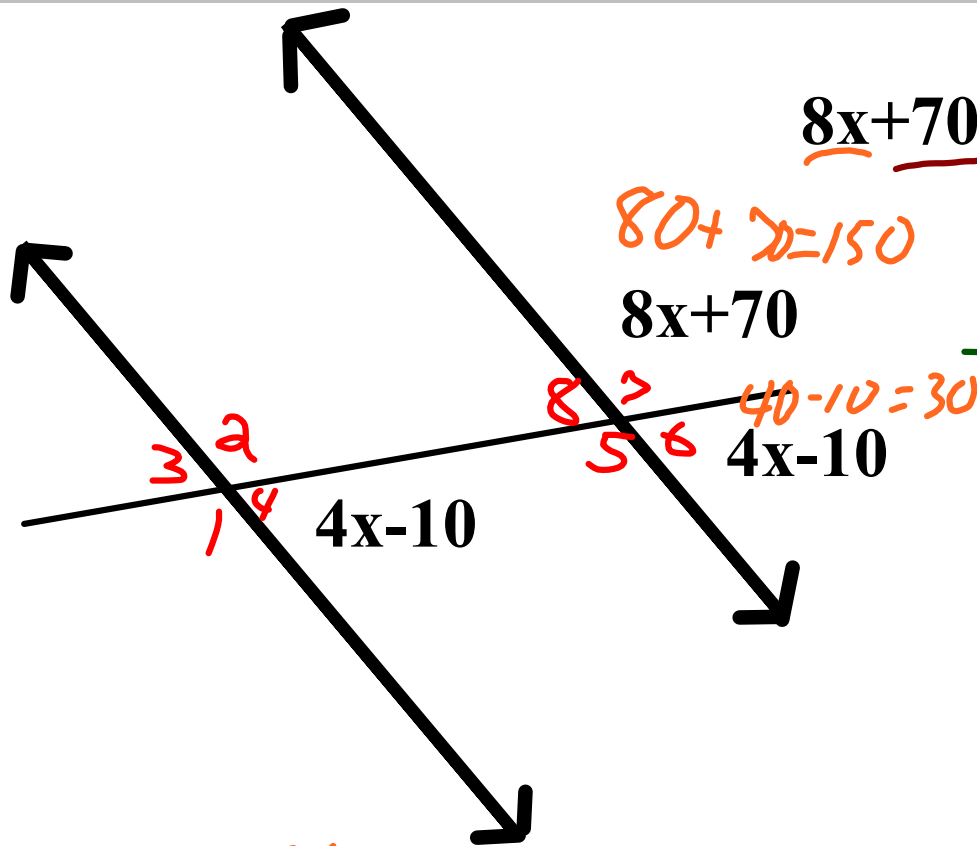
$$\begin{array}{r} 8y + 8 = 180 \\ -8 \quad -8 \\ \hline 8y = 172 \\ \frac{8y}{8} = \frac{172}{8} \\ \boxed{y = 21.5} \end{array}$$

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

$$64.5 + 4 = m\angle 5$$

$$68.5 = m\angle 5$$

$$\begin{array}{l} m\angle 1 = 68.5 \\ m\angle 2 = 111.5 \\ m\angle 3 = 68.5 \\ m\angle 4 = 111.5 \\ m\angle 5 = 68.5 \\ m\angle 6 = 111.5 \\ m\angle 7 = 68.5 \\ m\angle 8 = 111.5 \end{array}$$



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

$$80 + 20 = 150 \quad 12x + 60 = 180$$

$$8x+70$$

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

$$40-10=30$$

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

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

$$x = 10$$

$$m\angle 1 = 150$$

$$m\angle 2 = 150$$

$$m\angle 3 = 30$$

$$m\angle 4 = 30$$

$$m\angle 5 = 150$$

$$m\angle 6 = 30$$

$$m\angle 7 = 150$$

$$m\angle 8 = 30$$

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.