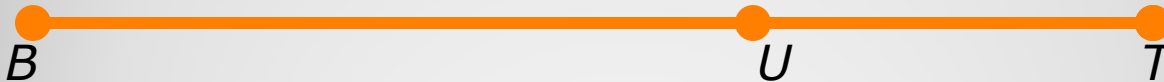


Wednesday, September 5, 2012

TISK Problems

- 1) Simplify: $(3mr^3)^2$
- 2) Factor completely: $8x^2 + 8x - 16$
- 3) Write the segment addition postulate for the segment shown:

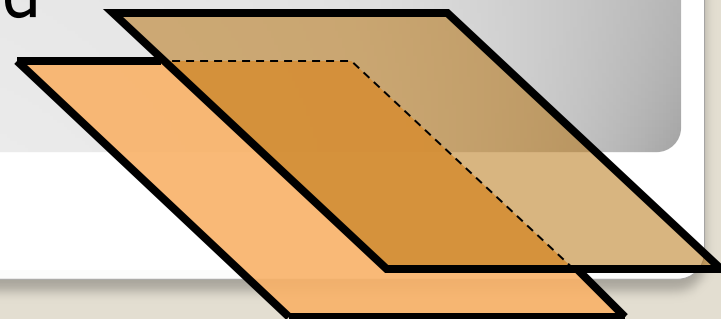
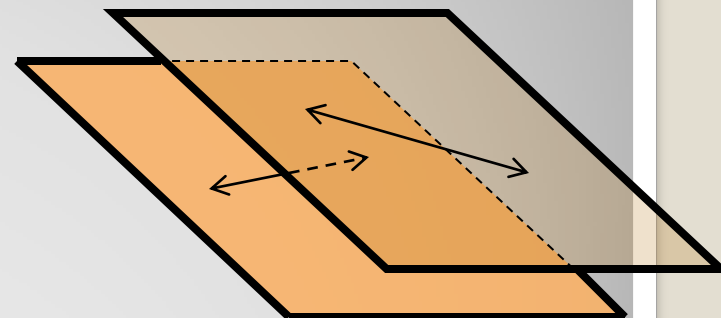
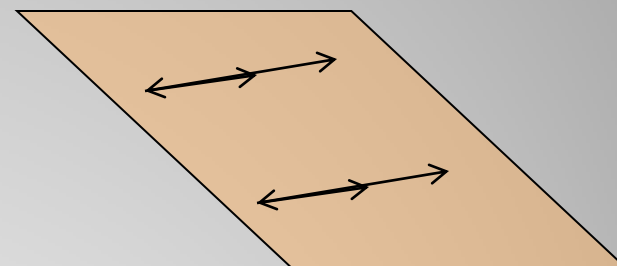


We will not have Mental Math questions today.

Homework: p. 128
#16-33 mentally;
34-43 writing

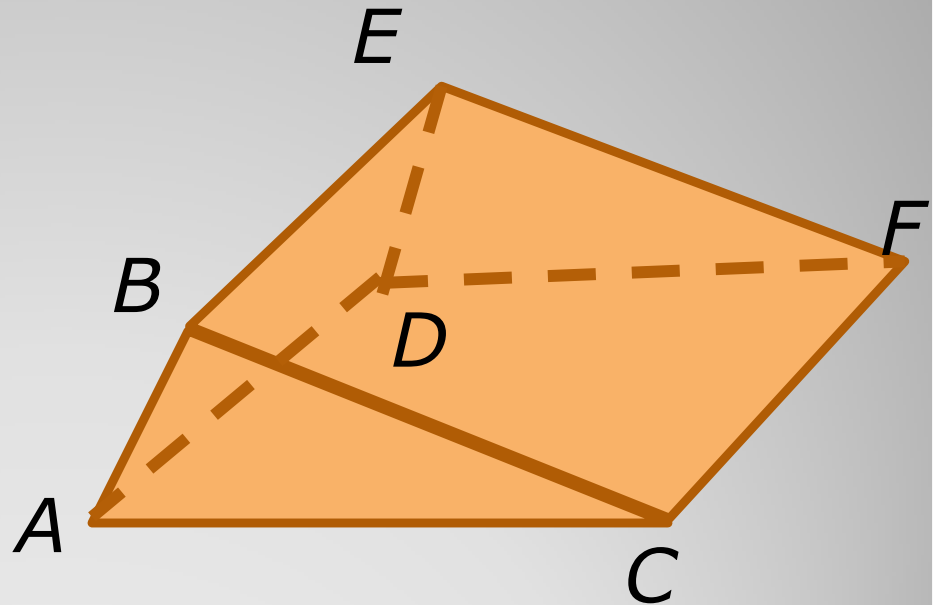
§3.1 Parallel Lines & Transversals

- Parallel lines
 - Two lines are parallel if and only if they are coplanar and never intersect.
- Skew Lines
 - Two lines are skew if and only if they are NOT coplanar and never intersect
- Parallel planes
 - Two planes are parallel if and only if they never intersect



- All pairs of parallel planes.

- All pairs of skew lines.

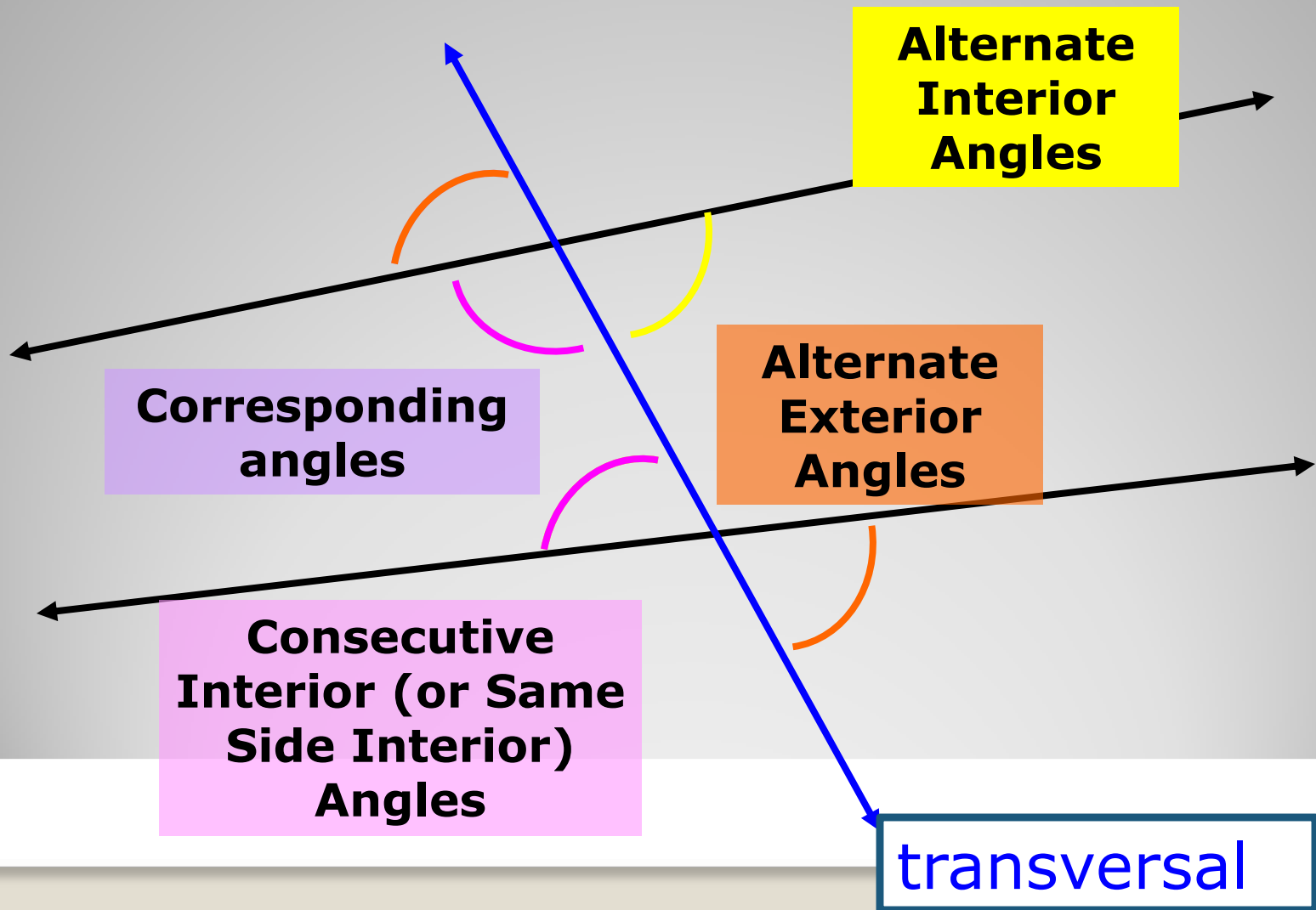


Name...

More Definitions

- **Transversals**
 - A line that intersects two or more coplanar lines
- **Corresponding Angles**
 - Two angles that occupy corresponding positions
- **Alternate Exterior Angles**
 - Two angles that lie outside the two lines on opposite sides of a transversal
- **Alternate Interior Angles**
 - Two angles that lie between the two lines on opposite sides of a transversal
- **Consecutive Interior Angles**
 - Two angles that lie between the two lines on the same side of a transversal (Also called: Same Side Interior Angles)

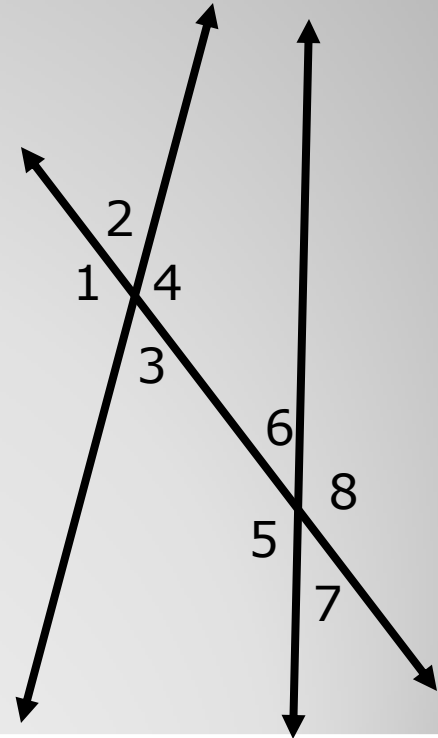
What does all that mean?



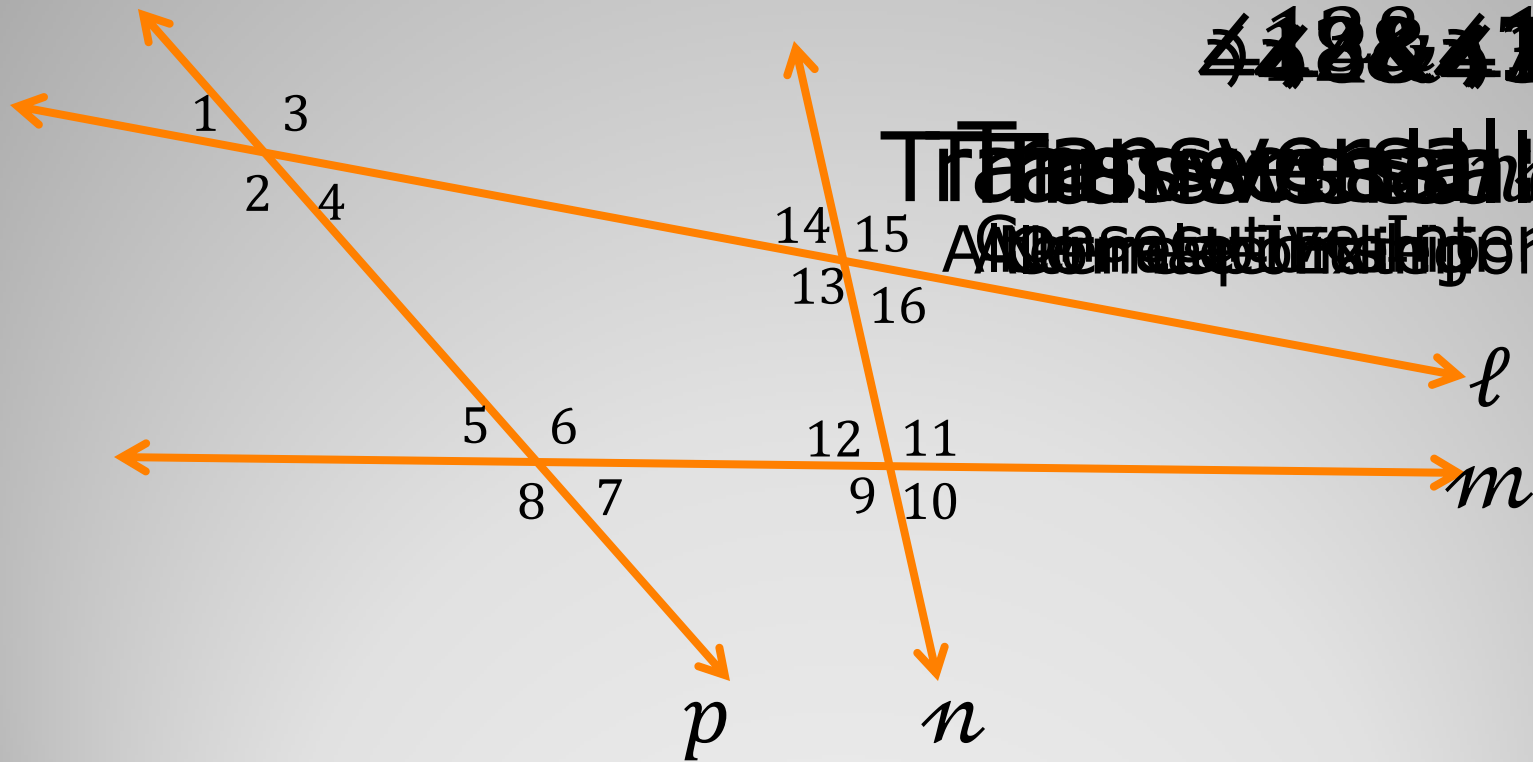
Check Points

List all pairs of angles that fit the description.

- a. Corresponding
- b. Alternate exterior
- c. Alternate interior
- d. Consecutive interior



- State the transversal that forms each pair of angles. Then identify the special name for the angle pair.



~~$\angle 1$ & $\angle 13$~~
 ~~$\angle 2$ & $\angle 13$~~

~~Transversal l~~
~~Transversal m~~
~~Alternate Interior~~
~~Consecutive Interior~~
~~Corresponding~~

Practice

Homework: p. 128

#16-33 mentally;

34-43 writing

Homework