THURSDAY, SEPTEMBER 6, 2012

TISK Problems

- 1) Factor completely: $6x^2 + 11x 35$
- 2) Draw \overrightarrow{AB} and \overrightarrow{CD} that intersect at point *E*.
- 3) Name two opposite rays in problem #2.

There will be 2 Mental Math questions today.

Homework: p. 135 #17-31 mentally; 38-40 & 44 in writing

Homework Check

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

§3.2 Angles and Parallel Lines

Corresponding Angles Postulate

• If two parallel lines are cut by a transversal, then corresponding angles are congruent.



Alternate Interior Angles Theorem (AIA Theorem)

- If two parallel lines are cut by a transversal, then alternate interior angles are congruent.
- You will prove this for homework!

Alternate Exterior Angles Theorem (AEA Theorem)

 If two parallel lines are cut by a transversal, then alternate exterior angles are congruent.



Consecutive Interior Angles Theorem (CIA Theorem)

• If two parallel lines are cut by a transversal, then consecutive interior angles are supplementary.



 $m \neq 1 + m \neq 2 = 180^{\circ}$

Perpendicular Transversal Theorem (\perp Transversal Theorem)

 If two parallel lines are cut by a transversal and the transversal is perpendicular to one of the lines, then it is perpendicular to the other line as well.



Homework

• p. 135 #17-31 mentally; 38-40 & 44 in writing