Cornell Notes

Main Ideas/Questions

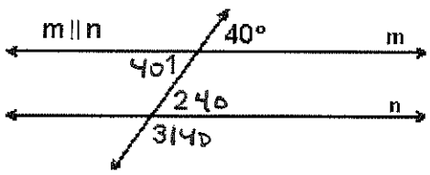
Name:_____ Date: _____

3-3

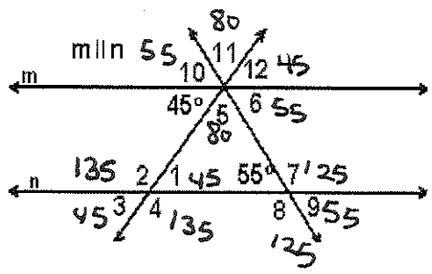
Title of Notes: **Application of Properties of Parallel Lines**

I. Use properties of parallel lines to problem solve and find the missing angle measure.

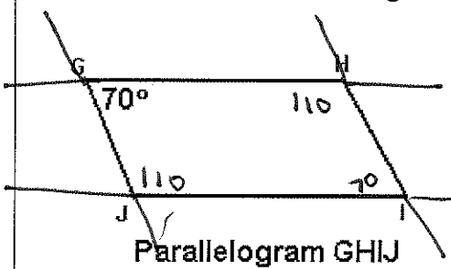
1. Find the measure of each angle.



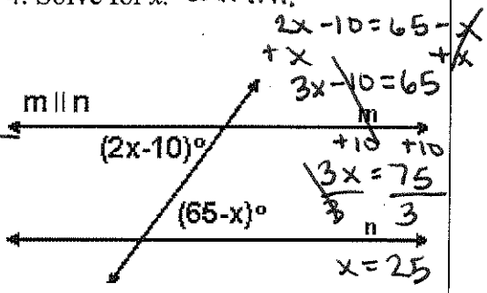
2. Find the measure of each angle.



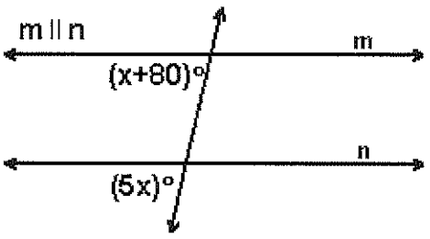
3. Find the measure of each angle.



4. Solve for *x*. alt. int.

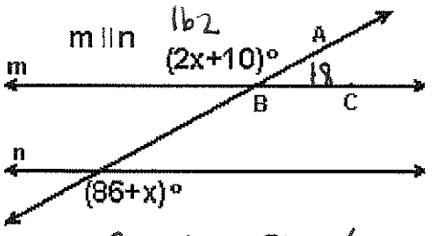


5. Solve for *x*.



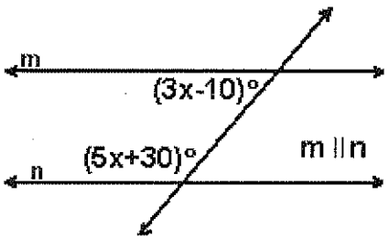
x+80 = 5x
-x -x
80 = 4x
4 4
20 = x

6. Solve for *x* and find $m\angle ABC$



2x + 10 = 86 + x
-x -x
x + 10 = 86
-10 -10
x = 76

7. Solve for *x* and find $m\angle ABC$



3x - 10 + 5x + 30 = 180
8x + 20 = 180
-20 -20
8x = 160
8 8
x = 20