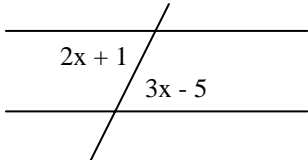


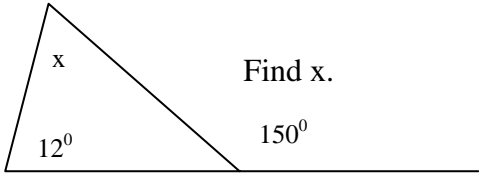
Geometry Honors Chapter 3 Review

- When given a diagram be able to identify angles that are corresponding, vertical, alternate interior, etc.
- Know how to do problems similar to
p.81 7-12, 14-16 p.82, 18, 19
p.104-105 1-5, 10, 11, 16, 17, 21
p.97 5-16
p.112 17-21 Ch Rev, p.112 7-11 Ch Test
- Know how to do Digits Place and Color Square Game
- Know that the exterior angle is equal to the sum of the two remote interior angles.

Practice Problems:

- 1) The measure of each interior angle of a regular polygon is 9 times that of an exterior. Find the number of sides of the polygon.

- 2)  Find x and the angle if the lines are parallel.

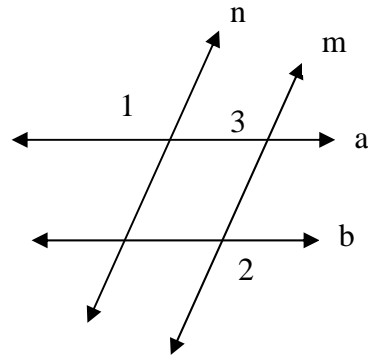
- 3)  Find x .

- 4) Give the next two numbers in the sequence: 1, -5, 10, -50, 100, ____, ____

- 5) The measure of one interior angle of a regular polygon is 140. Find the number of sides.

- 6) Five of the angles of a convex hexagon have measures 112, 100, 90, 160, 115. Find the sixth angle.

- 7) Given: $m \parallel n$, $\angle 1 \cong \angle 2$
 Prove: $a \parallel b$



- 8) Review proofs we did in class.

Answers:

- | | | | | | | | | | |
|------------------------------|---|----------|----------|------------------------------|-------------------------|------------------------------|-----------------|--------------------|-----------------------------|
| 1) 16 | | | | | | | | | |
| 2) $x = 6, 13^0$ | | | | | | | | | |
| 3) $x = 138^0$ | | | | | | | | | |
| 4) -500, 1000 | | | | | | | | | |
| 5) 9 | | | | | | | | | |
| 6) 143 | | | | | | | | | |
| 7) | <table border="0"> <tr> <td>1) -----</td> <td>1) Given</td> </tr> <tr> <td>2) $\angle 1 \cong \angle 3$</td> <td>2) Corresponding angles</td> </tr> <tr> <td>3) $\angle 2 \cong \angle 3$</td> <td>3) substitution</td> </tr> <tr> <td>4) $a \parallel b$</td> <td>4) Converse of alt exterior</td> </tr> </table> | 1) ----- | 1) Given | 2) $\angle 1 \cong \angle 3$ | 2) Corresponding angles | 3) $\angle 2 \cong \angle 3$ | 3) substitution | 4) $a \parallel b$ | 4) Converse of alt exterior |
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