

**GEOMETRY
HONORS
CLASS NOTES**

Name: _____

Section: 1.4 Period: _____ Date: _____

Key Question: _____

Questions/
Main Ideas:

Warm-up:

Solve each Equation:

a. $27 = c(-3)$ b. $-8 = -\frac{3}{4}c$ c. $\frac{k}{4} = -20$

Notes:

- _____ **lines** are lines that intersect to form a right angle.
- _____ **lines** are coplanar lines that do not intersect.

Activity 1 (textbook page 36)

After completing the activity finish the following statement...

- If two coplanar lines are perpendicular to the same line, then _____.

Activity 2 (textbook page 37)

After completing the activity finish the following statement...

- The shortest distance from a line and a non-collinear point is found by creating a _____ line through the point to the original line.
- A _____ is *Draw an example.*
a line that divides a segment into two congruent parts. The point where the bisector intersects a segment is the _____ of the segment.
- A bisector that is perpendicular to a segment is called a _____ *Draw an example.*
_____.
- An _____ is *Draw an example.*
a line or a ray that divides an angle into two congruent angles.

Activity 3 (textbook page 38)

After completing the activity finish the following statement...

Part I

- The distances from a point on the perpendicular bisector to the endpoints of the segment are _____.

Part II

- The distances from a point on the angle bisector to the sides of the angle are _____.

Staple your folding paper to the space below.

Summary: _____
