Henry Ford Early College H. Geometry: Unit 1 Review

Unit 1: Vocabulary Essentials and Angle Relationships

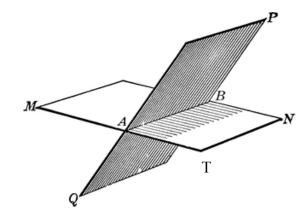
Chapter 1: Sections 1.3-1.6, 1.8

## Directions: Match the following terms with their precise definitions.

- 1.\_\_\_\_line segment A. Lines that are coplanar and do not intersect.
- 2.\_\_\_\_perpendicular lines B. Part of a line consisting of 2 endpoints.
- 3. \_\_\_\_parallel lines C. Formed by 2 rays with the same endpoint.
- 4. angle D. 2 Lines that intersect at a 90 angle.

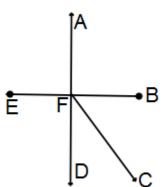
## Directions: Identify the following from the diagram.

- 5) 3 Collinear points \_\_\_\_\_
- 6) 3 coplanar points \_\_\_\_\_
- 7) a plane\_\_\_\_\_



Directions: Identify the following from the diagram. Make sure you have the appropriate geometric markings.

- 8) Line\_\_\_\_\_
- 9) Segment\_\_\_\_\_
- 10) Ray\_\_\_\_\_
- 11) Angle\_\_\_\_\_
- 12) Opposite rays \_\_\_\_\_



13.) Find the distance between points P(8, 2) and Q(3, 8) to the nearest tenth.

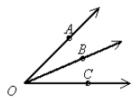
Directions: Draw and <u>label</u> the following correctly.

Perpendicular Bisector 14)	Angle Bisector 15)	Obtuse Angle 16)
Acute Angle 17)	Point 18)	Opposite Rays 19)

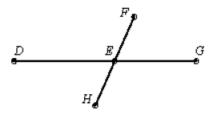
20.) If EF = 2x - 5, FG = 4x - 8, and EG = 29, find the values of x, EF, and FG. The drawing is not to scale.

21.) If T is the midpoint of SU, find the values of x and ST. The diagram is not to scale.

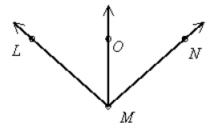
- 22.) M(3,3) is the midpoint of RS. The coordinates of S are (4,4). What are the coordinates of R? a. (6, 6) b. (2, 2) c. (3.5, 3.5) d. (5, 5)



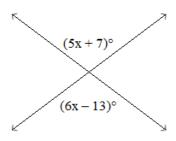
24.) If  $m\angle DEF = 107$ , then what are  $m\angle FEG$  and  $m\angle HEG$ ? The diagram is not to scale.



25.) MO bisects  $\angle LMN$ ,  $m\angle LMO = 8x - 22$ , and  $m\angle NMO = 2x + 38$ . Solve for x and find  $m\angle LMN$ . The diagram is not to scale.

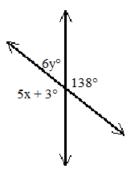


26.) Find the value of x.



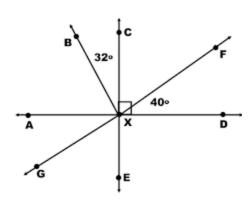
Drawing not to scale

27.) Find the values of x and y.



Drawing not to scale

## Use the diagram below for questions 28 - 33.



- 28. Name a right angle. \_\_\_\_\_
- 29. Name a pair of complementary angles. \_\_\_\_ and \_\_\_\_
- 30. Name a pair of vertical angles. \_\_\_\_\_ and \_\_\_\_
- 31. Name a pair of supplementary angles. \_\_\_\_\_ and \_\_\_\_
- 32. Name a straight angle. \_\_\_\_\_
- 33. Find the measure of the angles below:

$$m\angle CXF = \underline{\hspace{1cm}}$$

$$m\angle BXF =$$