Henry Ford Early College H. Geometry: Unit 1 Review

Unit 1: Vocabulary Essentials and Angle Relationships

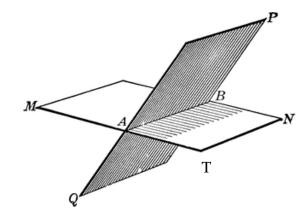
Chapter 1: Sections 1.3-1.6, 1.8

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.

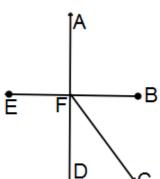
Directions: Identify the following from the diagram.

- 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.

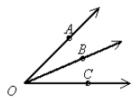
Perpendicular Bisector 14)	Angle Bisector 15)	Obtuse Angle 16)
Acute Angle 17)	Point 18)	Opposite Rays 19)

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.

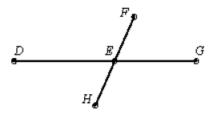
21.) If T is the midpoint of SU, find the values of x and ST. The diagram is not to scale.



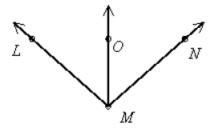
- 22.) M(3,3) is the midpoint of RS. The coordinates of S are (4,4). What are the coordinates of R? a. (6, 6) b. (2, 2) c. (3.5, 3.5) d. (5, 5)



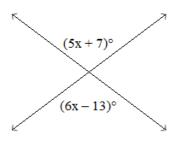
24.) If $m\angle DEF = 107$, then what are $m\angle FEG$ and $m\angle HEG$? The diagram is not to scale.



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.

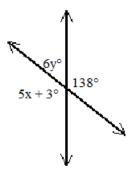


26.) Find the value of x.



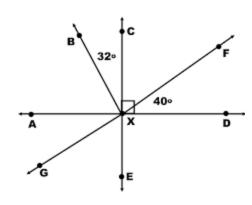
Drawing not to scale

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: