

Review Chapter 1 Basics of Geometry

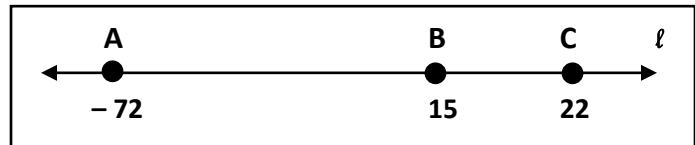
FILL IN THE BLANK. WORDS MAY BE USED MORE THAN ONCE. (YOU MIGHT NOT HAVE A WORD BANK ON THE TEST.)

two	three	midpoint	line	non-collinear	non-coplanar	Ruler Postulate
intersecting		point not on that line		Distance Formula	four	

- 1) _____ points determine exactly one plane.
- 2) _____ points determine exactly one line.
- 3) _____ planes form a line.
- 4) _____ points determine space.
- 5) A _____ and a _____ determine exactly one plane.
- 6) _____ lines determine exactly one plane.
- 7) A segment only has one _____.
- 8) This tells us how to find distance on a number line. _____
- 9) This tells us how to find distance in the coordinate plane. _____

USE THE FIGURE AT THE RIGHT TO ANSWER 16 – 18.

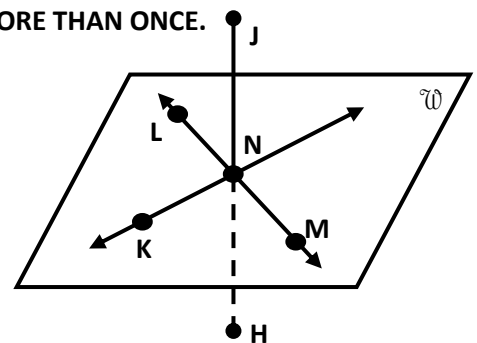
- 10) Name the line at the right in **3 different** ways.
- 11) Name a **pair** of opposite rays.
- 12) Find AB. Hint: Ruler Postulate



- 13) State the meaning of each of the following. \overline{RS} \overleftrightarrow{RS} RS \overrightarrow{RS}

USE THE FIGURE AT THE RIGHT TO ANSWER 20 – 24. WORDS MAY BE USED MORE THAN ONCE.

collinear	non-collinear	intersection
coplanar	non-coplanar	intersecting
point	bisect	



- 14) L, M, and N are _____ and _____ points.
- 15) L, M, N, and K are _____ and _____ points.
- 16) \overline{LM} and \overline{NK} are _____ lines.
- 17) N is the _____ of \overline{LM} and \overline{NK} .
- 18) If N is the midpoint of \overline{LM} , then \overline{JH} is said to _____ \overline{LM} .
- 19) The name of the plane is _____.

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \quad \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

FIND THE COORDINATES OF THE MIDPOINT OF EACH \overline{AB} . SHOW YOUR WORK ON A SEPARATE SHEET OF PAPER.

20) A (-1, 3); B (-5, 9); M (____, ____)

21) A (-1, -4); B (7, -4); M (____, ____)

22) A $\left(\frac{2}{3}, \frac{8}{3}\right)$; B (-1, 11); M (____, ____)

M is the midpoint of \overline{AB} . FIND THE COORDINATES OF THE MISSING ENDPOINT A or B. SHOW YOUR WORK ON A SEPARATE SHEET OF PAPER.

23) M (5, -3); A (3, -10); B (____, ____)

24) M (4, -4); B (-2, -7); A (____, ____)

25) M (0, 0); A (8, -5); B (____, ____)

26) M (0, -5); B (7, -5); A (____, ____)

FIND THE DISTANCE BETWEEN EACH SET OF POINTS. SHOW YOUR WORK ON A SEPARATE SHEET OF PAPER.

27) A (-1, 3); B (-5, 9); AB = _____

28) A (-1, -4); B (7, -4); AB = _____

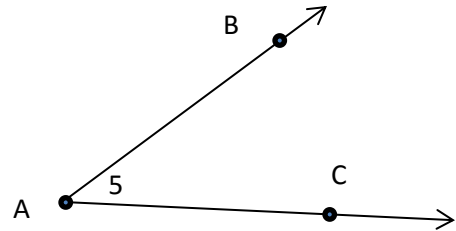
29) A (-5, 4); B (5, -6); AB = _____

30) A (2.5, 7); B (3.5, -11); AB = _____

Name the angle in **FOUR DIFFERENT** ways.

31) A is the _____ of the angle.

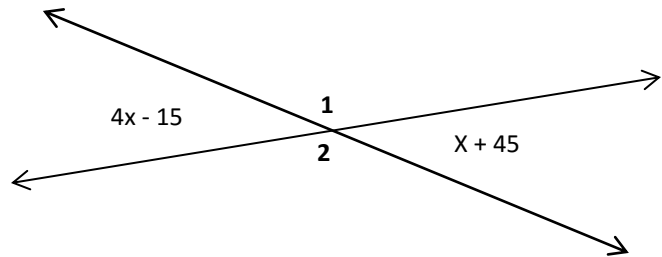
32) The sides of the angle are _____ and _____.



33) What kind of angles are angle 1 and 2

34) Find x

35) What is the measure of angle 1



36) Find x and all angle measures

37) Find y and all angle measures

38) Find z and all angle measures

