**Quiz 1: Tools of Geometry**

**Word Bank**

* plane - line segment - ray
* collinear - congruent - endpoints
* point - coplanar - line

**Vocabulary**

Write the term that best completes each statement.

1. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a portion of a line that begins with a single point and extends infinitely in one direction.
2. Two or more line segments of equal measure are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. The points where a line segment begins and ends are the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a portion of a line that includes two points and all of the collinear points between the two points.
5. A(n) \_\_\_\_\_\_\_\_\_\_\_\_ is a straight continuous arrangement of an infinite number of points.
6. Two or more lines located in the same plane are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. Points that are all located on the same line are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
8. A location in space is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
9. A flat surface is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. Identify the point(s), line(s), and plane(s) in the figure. Use proper notation. Separate items in each list with commas.



Points:

Lines:

Planes:

1. Name each geometric figure.

a) b) c)

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1. ******Ray BD bisects ∠*ABC*. m∠*ABD* = 8x - 1 and m∠*DBC* = 7x + 10.

Find the measure of ∠*ABD,* ∠*DBC,* and ∠*ABC.*

**14)** Given the figure and measures of the two angles, solve for *x*.

 

**15)** Construct a line segment congruent to the given line segment below.



**16)** Construct an angle congruent to the given angle below.

