Name: _____ Period: _____

Quiz 1: Tools of Geometry

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.

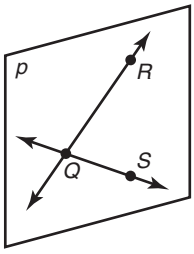
6) Two or more lines located in the same plane are _____.

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.



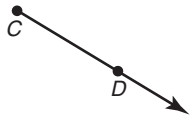
Points:

Lines:

Planes:

11) Name each geometric figure.

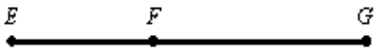
a)



b)

c)

12) If $EF = 4x - 16$, $FG = 3x - 6$, and $EG = 27$, find the values of x, EF, and FG.



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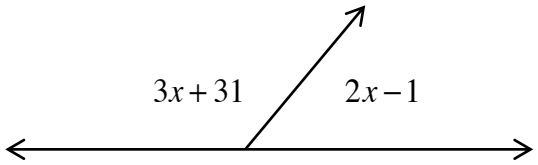
13) $\angle ABC$ and $\angle DEF$ are congruent angles. $\angle ABC$ = 8x - 1 and $\angle DEF$ = 7x + 10. Find the measure of each angle.

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



15) Construct a line segment using your compass so that points B, E, and A are collinear and point B is located halfway between points E and A.

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