

Geometry Mid-Year Test Study Guide

Name: _____

Date: _____ Page: _____

Topic 11: Geometry Basics

1. Use the diagram to the right to answer the questions below.

- Name a point collinear to point E. _____
- Give another name for line E. _____
- Name a point non-coplanar to point E. _____



2. Use the diagram to the right to answer the questions below.

- Name the intersection of planes $JCELMN$ and $JDEKJ$. _____
- Name a point coplanar to points F and E. _____
- Name a point non-coplanar to point E. _____



Distance Formula:

Midpoint Formula:

Use for questions 3-4: Given the segment \overline{AB} with endpoints $A(-1, 7)$ and $B(11, -1)$

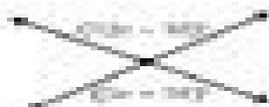
3. Find the length of \overline{AB} .

4. Find the midpoint of \overline{AB} .

5. A segment has a midpoint at $(2, -7)$ and an endpoint at $(6, -5)$. What are the coordinates of the other endpoint?

6. If E is the midpoint of \overline{RT} , $RE = 3x - 1$ and $RT = 10x - 26$, find RT.

7. Find the value of x.



8. If $\angle JNK = (3x - 2)^\circ$ and $\angle KNM = (10x - 3)^\circ$, find $m\angle JNM$.



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S Ashworth



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