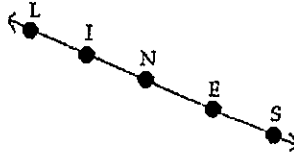
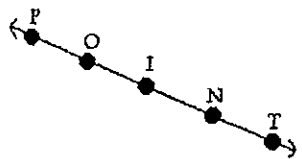


Unit B (Angles) Exam Review + Euclidean Geometry

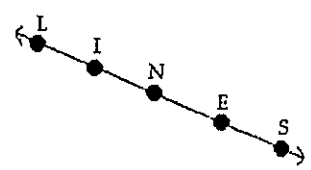
1. Give another name for \overleftrightarrow{SN} . 1. _____



2. If $PT = 40$, $OT = 26$, and $ON = 21.8$, find PN . 2. _____
(diagram not to scale)



3. Are \overleftrightarrow{NS} and \overleftrightarrow{SN} the same set of points? Explain...

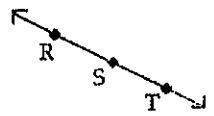


4. Refer to the figures below. I. II. III.



- a. Which figure is a convex pentagon? 4a. _____
- b. Which figure is a nonconvex pentagon? b. _____

5. On the number line below, point R has coordinate 59 and point S has coordinate 138. If point S is the midpoint of \overline{RT} , what is the coordinate of T? 5. _____

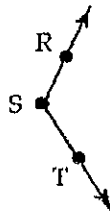


6. Two points are 19 units apart on a number line. The coordinate of one point is -13. What are the possible coordinates of the other? 6. _____

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7. $\angle WYB$ is an obtuse angle, and YM is its bisector. Draw a picture of this situation.

8. On the figure, sketch an angle that is vertical to $\angle RST$.



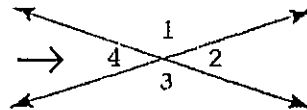
9. Refer to the figure.

a. Find $m\angle 3$ if $m\angle 1 = 155^\circ$.

9a. _____

b. Find $m\angle 3$ if $m\angle 2 = 3n^\circ$.

b. _____



10. Suppose $\angle 6$ and $\angle 7$ are complementary with $m\angle 6 = (4r + 5)$ and $m\angle 7 = (9r - 6)$.

a. Find r .

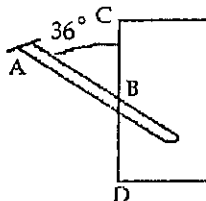
10a. _____

b. Find $m\angle 6$.

b. _____

11. A nail is being driven into a wall to hang a picture. If the measure of $\angle ABC$ is 36° , what is the measure of $\angle ABD$.

11. _____

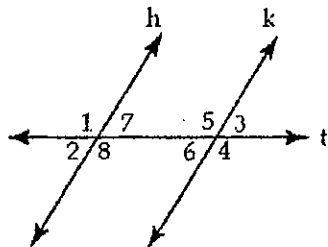


Name: _____ Date: _____ Hour: _____

12. $\angle 1$ and $\angle 2$ are vertical angles. If $m\angle 1 = 14s$ and $m\angle 2 = 42^\circ$, find s . 12. _____

13. In the figure below, $h \parallel k$. Suppose that $m\angle 7 = 72^\circ$.

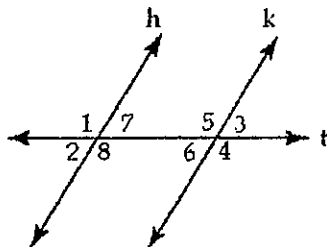
- a. Find $m\angle 1$.
b. Find $m\angle 5$.
c. Find $m\angle 6$.



- 13a. _____
b. _____
c. _____

14. In the figure below, $h \parallel k$. Suppose that $m\angle 2 = (7y - 38)$ and $m\angle 3 = (3y + 10)$.

- a. Find y .
b. Find $m\angle 6$.



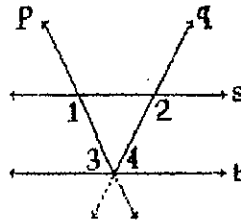
- 14a. _____
b. _____

15. **Multiple Choice.** Use the figure below. If $m\angle 2 = 90^\circ$, which statement justifies the conclusion that $\angle 2$ is a right angle. 15. _____

- A. Linear Pair Theorem B. Definition of supplementary angles
C. Definition of a right angle D. Definition of perpendicular lines

16. In the figure below, $s \parallel t$. If $m\angle 4 = 37^\circ$ and $m\angle 3 = 42^\circ$, find $m\angle 1$ and $m\angle 2$.

16. _____



For 18-20, $J = \{x \geq 18\}$ and $K = \{x \leq 19\}$.

18. a. Draw $J = \{x \geq 18\}$ on a number line.
 b. Draw $K = \{x \leq 19\}$ on a number line.

19. Give $J \cup K$.

19. _____

20. Give $J \cap K$.

20. _____

In 21-23, refer to the figure below.

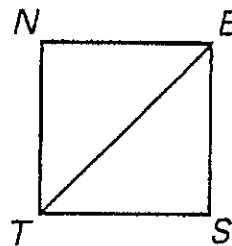
21. List the points of $\triangle NET \cap \overline{ES}$.

21. _____

22. List the points of $\triangle NET \cup \triangle TES$.

22. _____

23. Give $\overline{NT} \cap \overline{ES}$.



23. _____