

UNIT TEST **Lessons 1–10** (100 points possible)

I. Fill in the blank with the best answer. (2 points each)

1. _____ Where two or more lines share a common point.

2. _____ Having the same size and shape.

3. _____ A set with no members.

4. _____ A polygon with three sides.

5. _____ Any two angles which add up to 180° .

6. _____ An angle with a measure greater than 180° and less than 360° .

7. _____ A line that cuts an angle or segment in half.

8. _____ The union of two rays with a common endpoint.

UNIT TEST I

II. In the space below, do the following: (14 points)

1. Draw an angle with a measure of 230° .

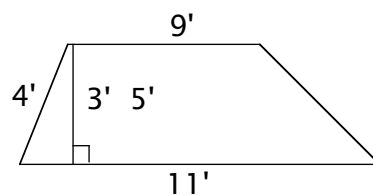
2. Draw an 80° angle, and then using your compass, construct its bisector.

III. Give a quick definition and sketch for each of the following: (8 points)

1. isosceles triangle

2. scalene triangle

IV. Give the perimeter and area for the trapezoid. (6 points)



V. Use the drawing to answer questions #1–12. (3 points each)

1. $m\angle 2 =$

2. $m\angle 9 =$

3. Name a pair of corresponding angles.

4. Name a pair of alternate interior angles.

5. Name an acute angle.

6. Is $\angle 13 \cong \angle 9$? Why or why not?

7. Name two points on this drawing that are not collinear.

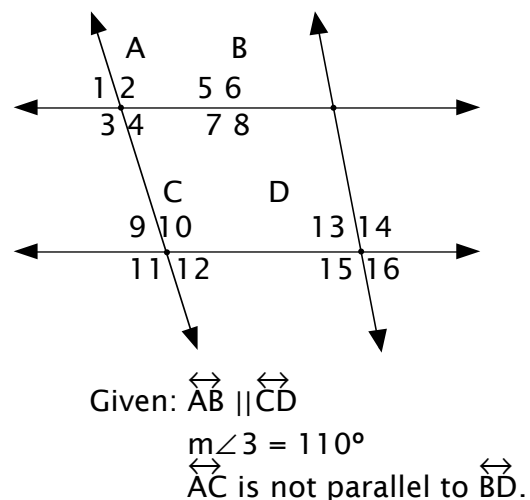
8. What is the vertex of $\angle 3$?

9. How many points are in line AB?

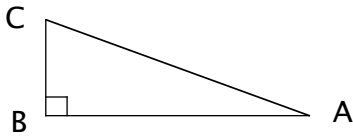
10. How many dimensions does line AB have?

11. Name an angle that is supplementary to $\angle 1$.

12. Name the vertical angle that is paired with $\angle 12$.



- VI. If $AB = 6$ inches and $BC = 2$ inches, what is the area of triangle ABC ? (5 points)



- VII. Name all the shapes that have two pairs of parallel sides. (8 points)

- VIII. Given: set $A = \{2, 3, 4, 5\}$ and set $B = \{3, 4, 5, 6\}$. Answer the questions. (7 points)

1. What is $A \cup B$?

2. Is set A a subset of set B? Why or why not?