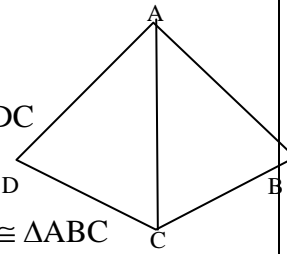
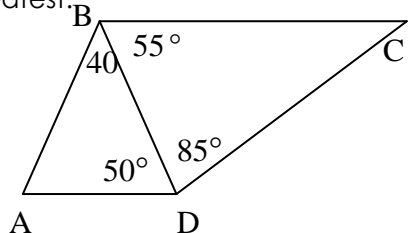
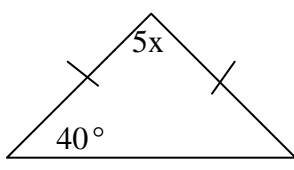
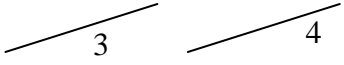
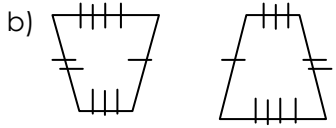
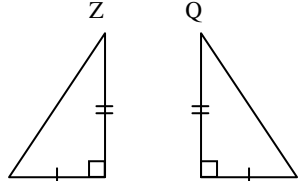
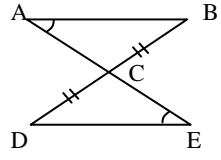
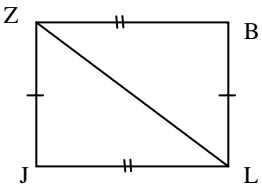
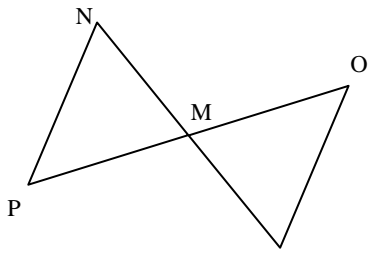
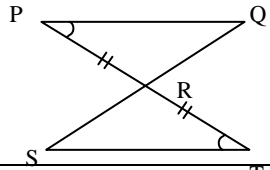


USE OTHER PAPER TO DO THIS FER!!!

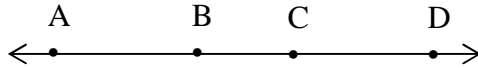
<p>1) Determine if a triangle can be formed by the given lengths.</p> <p>a) 1, 3, 3 b) 6, 8, 10 c) 3, 5, 8 d) 5, 6, 7</p>	<p>2)</p>  <p>Given: $AD \perp DC$ $AB \perp BC$ $AD = AB$</p> <p>Prove: $\triangle ADC \cong \triangle ABC$</p>	<p>3) Arrange the sides from least to greatest.</p> 
<p>4) An isosceles triangle has a base of 6 inches. The congruent sides are 5 inches.</p> <p>a) Draw a picture. b) Find the altitude length. Find the triangle's area.</p>	<p>5)</p>  <p>Find x and the measure of all the angles.</p>	<p>6) Determine if the triangle is right, obtuse, or acute by the given side lengths.</p> <p>a) 1, 2, $\sqrt{3}$ b) 5, 7, 9 c) 9, 10, 12 d) 3, 8, 10</p>
<p>7. Determine whether the figures are congruent. Explain why.</p> <p>a)</p>  <p>b)</p> 	<p>8. Suppose $ABCDEF \cong LMNOPQR$</p> <p>a) $\angle A \cong$ b) $\angle NOP \cong$ c) $\overline{DE} \cong$ d) $\overline{RQ} \cong$ e) diagonal $\overline{FD} \cong$</p>	<p>9. Determine if the triangles are congruent. If they are, give the triangle congruence statement and the postulate or theorem that justifies.</p> 
<p>10. Determine if the triangles are congruent. If they are, give the triangle congruence statement and the postulate or theorem that justifies.</p> 	<p>11. Determine if the triangles are congruent. If they are, give the triangle congruence statement and the postulate or theorem that justifies.</p> 	<p>12. Given: \overline{LN} and \overline{OP} bisect each other.</p> <p>Prove: $\angle O \cong \angle P$</p> 
<p>13. Finish each theorem.</p> <p>a) Linear pairs are _____. b) Vertical angles are _____. c) If two parallel lines are cut by a transversal then: Alternate interior angles are _____. Alternate exterior angles are _____. Same side interior angles are _____. Same side exterior angles are _____. Corresponding angles are _____.</p>	<p>14. BFF 22: Classify each of the following angles:</p> <p>30° _____ 130° _____ 180° _____ 0° _____ 90° _____</p>	<p>15. Determine if the following pairs of triangles are congruent. If so, write a complete 2-column proof.</p> 

BFF 19: Determine correct notations for angles using congruence and equality. Label each statement by circling Valid or Invalid.

- a) $m\angle B + m\angle C = m\angle A$ V or Inv (circle one) b) $\angle B + \angle C = \angle A$ V or Inv (circle one)
 c) $\angle A = 8$ V or Inv (circle one) d) $m\angle A = 8$ V or Inv (circle one)
 e) $m\angle A \cong 8$ V or Inv (circle one)

BFF 12: State and use the Segment Overlap theorem in an IF...THEN format using the letters from the drawing, then substitute to solve the following problems:

$$\begin{aligned} AC &= 5x + 2 \\ BD &= 2x + 26 \\ BC &= 2x + 3 \\ AB &= CD \end{aligned}$$



IF _____ = _____ ,
THEN _____ = _____

Solve for $x =$ _____ Find $AB =$ _____

For all the 50 series skills below, use ONLY construction materials...compass, straight edge and pencil. Do NOT use a ruler's length measurements, nor a protractor's angle measurements. BE SURE TO LEAVE CONSTRUCTION MARKS...DO NOT ERASE.

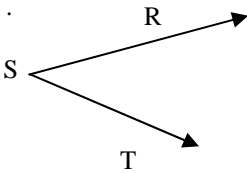
BFF 50: Construct a circle.

BFF 51: Copy the segment below

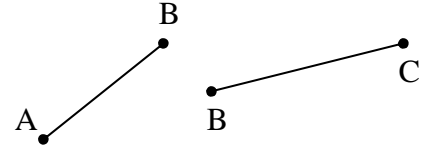
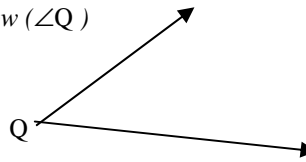


BFF 52: Add the two segments below to form a single segment that is the length of the sum of $AB + BC = AC$

BFF 53: Copy angle $\angle RST$ below



BFF 54: Construct an angle bisector to the angle below ($\angle Q$)



RSN 05	Fill in a truth table to determine validity of conditional statements.							
			Converse	Conditional	Not P	Not Q	Inverse	Contrapositive
	P	Q	$Q \Rightarrow P$	$P \Rightarrow Q$	$\sim P$	$\sim Q$	$\sim P \Rightarrow \sim Q$	$\sim Q \Rightarrow \sim P$
	F	T						
	T	T						
		F	F					
		T	F					
RSN07	1) Determine if the following is a good definition.							
	Potential Definition:	<i>Carrots are vegetables that grow in the ground..</i>				Is it True or False?	Counter-Example? If necessary...	
	...the Conditional:							
	...the Converse:							
	...the Biconditional							
	Is it a good Definition or not?	Yes/No...because...(what has to be so about the conditional, converse and biconditional?)						
RSN08	Determine the "opposite" (logical negation) of each of the following:							
	1) Black _____							
	2) $x > 8$ _____							
	3) I am happy. _____							
RSN09	Given the following statements are true, come to an appropriate conclusion using Indirect Reasoning. Show Work.							
	1) If I drink coffee, then I am alert. I am not alert. Therefore.....							
RSN 10	Correctly match Properties of Equality and Congruence with representative examples.							
	1) Addition Property of Equality		If $a = b$ and $c = d$, then $a + c = b + d$					
	2) Subtraction Property of Equality		If $a = b$ and $c = d$, then $a - c = b - d$					
	3) Multiplication Property of Equality		$\overline{DE} \cong \overline{DE}$					
	4) Division Property of Equality		If $a = b$ then $b = a$					
	5) Substitution Property of Equality		If $a = b$ and $c = d$, then $a \div c = b \div c$					
	6) Reflexive Property of Equality		If $\overline{AB} \cong \overline{CD}$ then $\overline{CD} \cong \overline{AB}$					
	7) Symmetric Property of Equality		If $a = b$, then either a or b may be substituted for the other in any equation or inequality.					
	8) Reflexive Property of Congruence		If $\angle S \cong \angle T$ and $\angle T \cong \angle R$, then $\angle S \cong \angle R$					
	9) Symmetric Property of Congruence		If $a = b$ and $c = d$, then $a + c = b + d$					