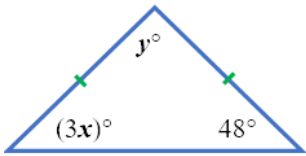
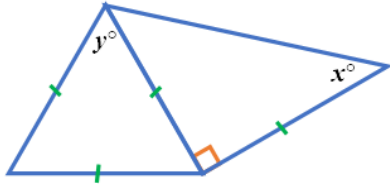
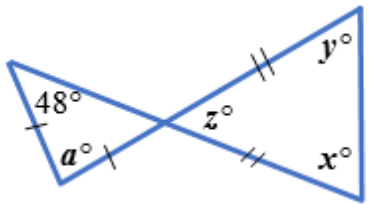
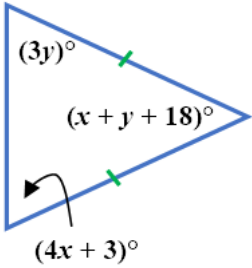
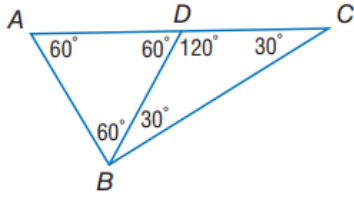
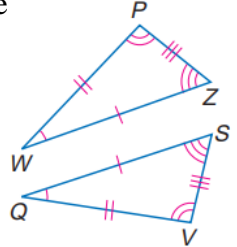
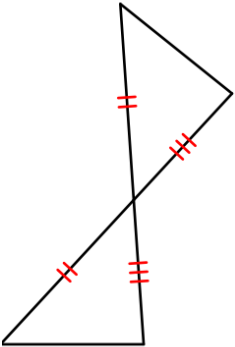
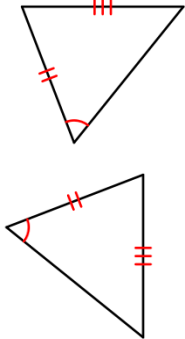
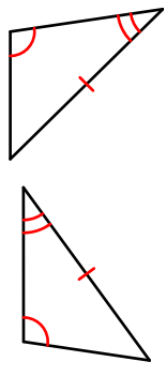
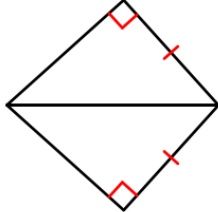
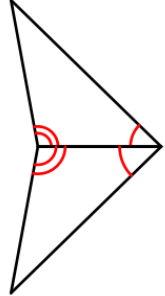
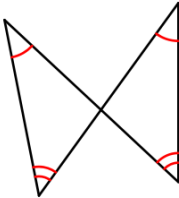
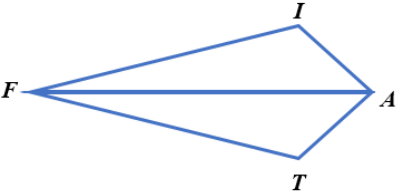
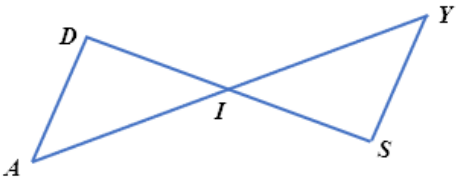
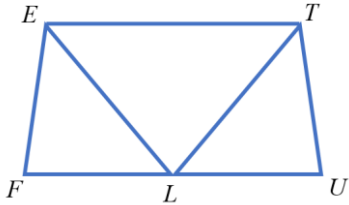
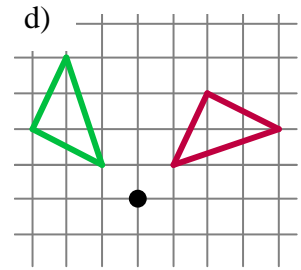
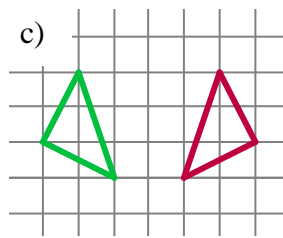
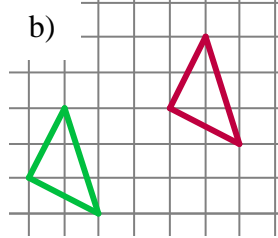
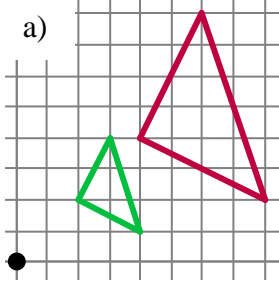


Chapter 5

<p>1. Find the value of x and y.</p> 	<p>2. Find the value of x and y.</p> 	<p>3. Find the value of each variable.</p> 
<p>4. Write and solve a system to find the value of x and y.</p> 	<p>5. Choose two words to describe each triangle. Use each word once. Right, Acute, Obtuse, Scalene, Isosceles, Equilateral.</p> <p>a) $\triangle ADB$ b) $\triangle DBC$ c) $\triangle ABC$</p> 	<p>6. Complete the congruence statement</p>  <p>$\triangle ZWP \cong \triangle \underline{\hspace{1cm}}$</p>
<p>7. Determine if the two triangles are congruent. If they are, state by which congruence property. Remember you can mark any vertical angles congruent and any side is congruent to itself (reflexive property).</p> <p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p> <p>e) </p> <p>f) </p>		
<p>8. Given: $\angle T \cong \angle I$ \overline{FA} bisects $\angle IAT$ Prove: $\triangle FIA \cong \triangle FTA$</p> 	<p>9. Given: $\angle D \cong \angle S$ I is a midpoint of \overline{DS} Prove: $\triangle DIA \cong \triangle SIY$</p> 	<p>10. Given: $\angle LET \cong \angle LTE$ L is the midpoint of \overline{UF} ; $\angle ELF \cong \angle ULT$ Prove: $\triangle FEL \cong \triangle TUL$</p> 

Chapter 4

11. Determine which type of transformation is shown in each image:



12. Graph the preimage and the image. Describe the transformation in words.

a) $(x, y) \rightarrow (x+3, y-4)$

b) $(x, y) \rightarrow (-x, y)$

c) $(x, y) \rightarrow (2x, 2y)$

d) $(x, y) \rightarrow (-x, -y)$

preimage		
	x	y
C	2	-1
A	-3	2
T	5	3

preimage		
	x	y
P	1	-1
I	5	-1
G	5	-4

preimage		
	x	y
R	-4	2
A	4	3
T	2	-1

preimage		
	x	y
H	2	2
E	5	2
N	5	-4

13. Describe the result of applying each rule.

a) $(x, y) \rightarrow (x-3, y)$

b) $(x, y) \rightarrow (x+1, y-2)$

c) $(x, y) \rightarrow (-x, -y)$

14. Write the rule for each description.

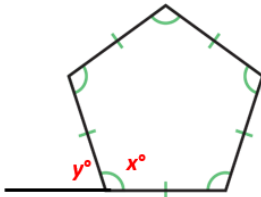
a) translate 4 units up

b) reflect over x -axis

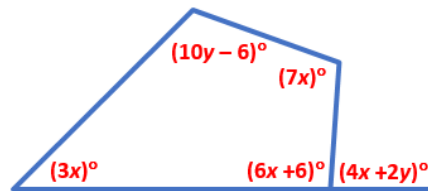
c) translate 2 units left

Chapter 6:

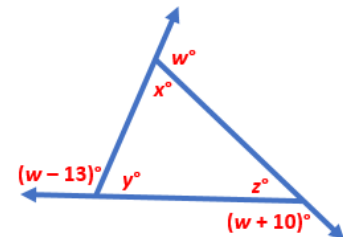
15. Find the value of x and y .



16. Find the value of x and y .



17. Find the value of x and y .



18. If the measure of one interior angle of a regular polygon is 135° , how many sides does it have?

19. What is the measure of one exterior angle of a regular hexagon?

20. If two sides of a triangle are 6 and 15, what are the possible lengths of the third side.

Algebra Review:

21. Simplify each expression:

a) $\sqrt{18}$

b) $\sqrt{64} + \sqrt{25}$

c) $5\sqrt{2} + 7\sqrt{2}$

d) $\sqrt{40} + \sqrt{90}$

22. Solve:

a) By factoring:

$$2x^2 + 5x - 12 = 0$$

b) By the quadratic formula:

$$2x^2 + 5x - 12 = 0$$

23. Find the equation of the line passes through $(4, -7)$ and $(11, 7)$.

24. Find the equation of the line perpendicular to $y = 3x - 5$ that passes through $(6, -2)$

25. Graph each line.

a) $3x - 4y = 8$

b) $x = -4$

c) $y = 1 - x$

26. What is the slope of the line parallel to $2x - y = 7$?