

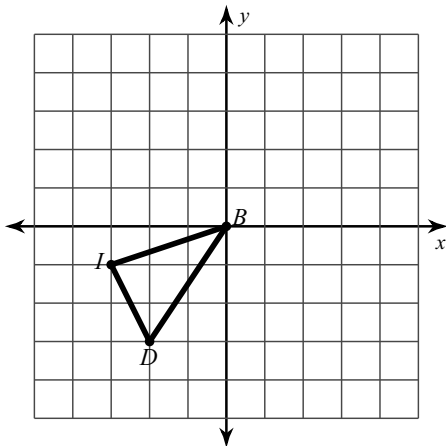
5.REV.1 ~ Lessons 5.1 - 5.3

Past due on \_\_\_\_\_ Period \_\_\_\_\_

**Graph the image of the figure using the transformation given. Then classify the triangle according to its sides. Is it a right triangle.**

1) translation: 3 units right and 3 units up

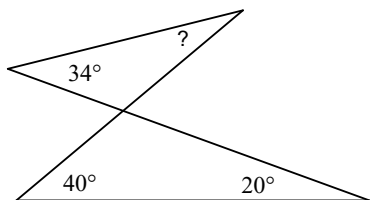
2) Is the triangle scalene, isosceles, or equilateral?



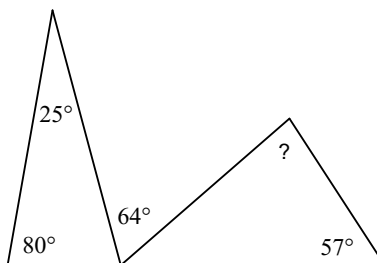
3) Use slopes or the Pythagorean Theorem to determine if the triangle is a right triangle.

**Determine the measure of the indicated angle.**

4)

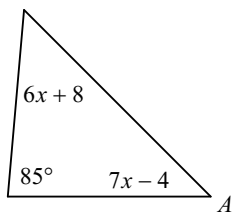


5)

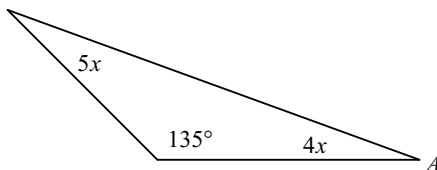


**Use the Triangle Sum Theorem to set up and solve an equation to find the value of  $x$ . Then find the measure of angle  $A$ .**

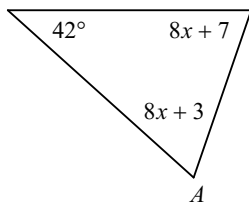
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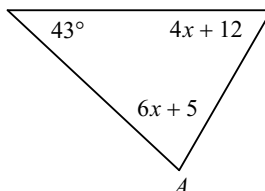
7)



8)

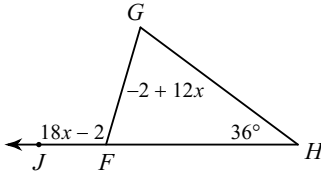


9)

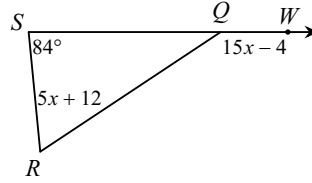


Use the Exterior Angle Theorem to set up and solve an equation to find the value of  $x$ .

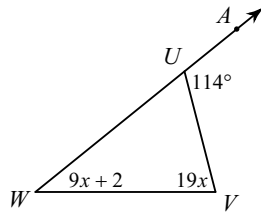
10)



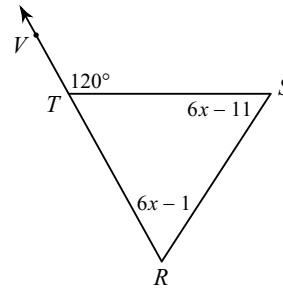
11)



12)

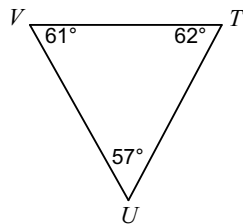


13)

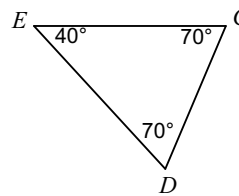


Order the sides of each triangle from shortest to longest.

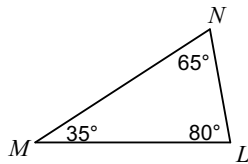
14)



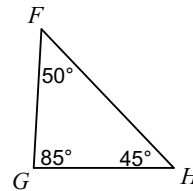
15)



16)



17)



Use the Triangle Inequality Theorem to determine if the three numbers can be the measures of the sides of a triangle.

18) 50, 28, 15

19) 41, 23, 19

20) 28, 41, 16

21) 25, 49, 21