Acc Geometry	Name
4.1 & 4.2 Practice 2020	Date
Warm-Up:	
4.1 Warm-Up:	
	sure of each side of the triangle.
1. Δ FGH is equilateral with	FG = x + 5, $GH = 3x - 9$, and $FH = 2x - 2$.
	X=
	FG=
	GH=_
	FH=_

4.1 Warm-Up:

2. Find x and the measure of each side of isosceles triangle EFG.



4.1 Warm-Up:

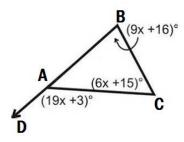
 COORDINATE GEOMETRY Find the measures of the sides of △DEC. Classify the triangle by sides.

Use the Distance Formula to find the lengths of each side.

A Y	
	D
	+
	\vdash
	\vdash
	c
0	- F
	2y

4.2 Angle Example:

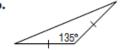
4. Exterior Angle Theorem: The measure of the exterior angle is the sum of the measures of the remote interior angles.

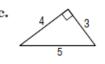


4.1 & 4.2 Practice Worksheet 2020 Taken from textbook

- 1. Supply the correct numbers to complete each sentence.
 - a. In an obtuse triangle, there are _____ acute angle(s), _____ right angle(s), and obtuse angle(s).
 - b. In an acute triangle, there are _____ acute angle(s), _____ right angle(s), and obtuse angle(s).
 - c. In a right triangle, there are _____ acute angle(s), _____ right angle(s), and _____ obtuse angle(s).
- 2. Determine whether each statement is *always*, *sometimes*, or *never* true.
 - a. A right triangle is scalene.
 - b. An obtuse triangle is isosceles.
 - c. An equilateral triangle is a right triangle.
 - d. An equilateral triangle is isosceles.
 - e. An acute triangle is isosceles.
 - f. A scalene triangle is obtuse.
- 3. Describe each triangle by as many of the following words as apply: acute, obtuse, right, scalene, isosceles, or equilateral.

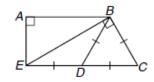






Identify the indicated type of triangles.

4. right 5. isosceles

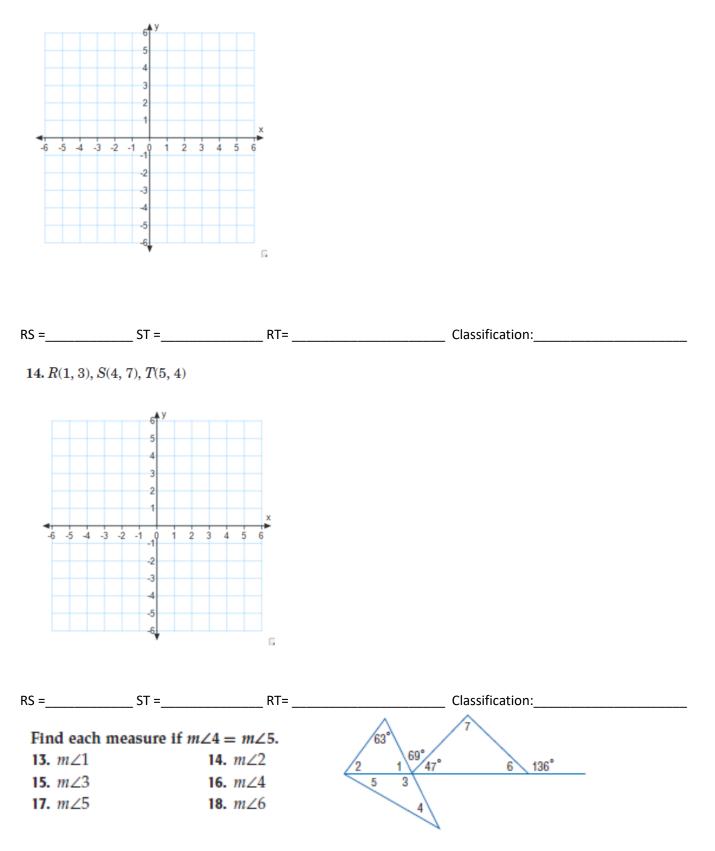


- 6. scalene
- 7. Find the measure of each side of equilateral $\triangle RST$ with RS = 2x + 2, ST = 3x, and TR = 5x 4.

8. Find the measure of each side of isosceles $\triangle ABC$ with AB = BC if AB = 4y, BC = 3y + 2, and AC = 3y.

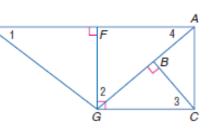
Find the measures of the sides of $\triangle RST$ and classify each triangle by its sides.

13. R(0, 2), S(2, 5), T(4, 2)



Find each measure if $m \angle DGF = 53$ and $m \angle AGC = 40$. **19.** $m \angle 1$

- **20.** *m*∠2
- m∠3
- **22.** *m*∠4

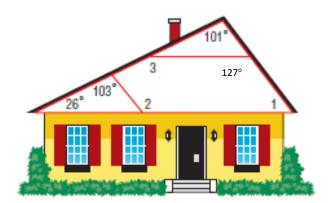


D

HOUSING For Exercises 27–29, use the following information.

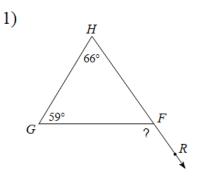
The two braces for the roof of a house form triangles. Find each measure.

- **27.** *m*∠1
- **28.** *m*∠2
- **29.** *m*∠3

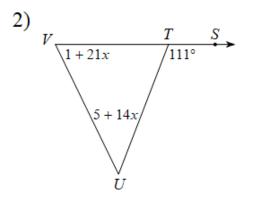


Exterior Angles

Find the measure of each angle indicated.



Solve for x.



Find the measure of the angle indicated.

3) Find $m \angle G$.

