

# 4.1 Classifying Triangles

Triangles can be classified in two ways: by their angles or by their sides.

## Classification of Triangle by Angles

Acute Triangle	Equiangular Triangle	Right Triangle	Obtuse Triangle
			
all three angles acute	all 3 congruent angles	one right angle or ninety deg.	one obtuse angle

Classify each angle as acute, equiangular, obtuse, or right:

			
right	obtuse	equiangular	acute

## Classification of Triangle by Sides

Equilateral Triangle	Isosceles Triangle	Scalene Triangle
		
3 congruent size	2 congruent sides	no congruent sides

Classify each angle as equilateral, isosceles, or scalene

			
equilateral	scalene	isoclines	scalene

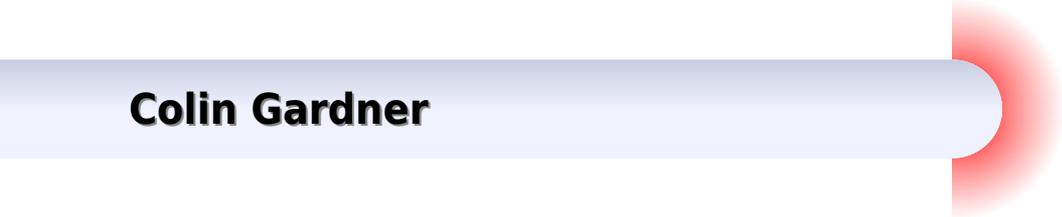
Find the length of each side if  $\triangle RST$  is an equilateral triangle.



$$\begin{aligned}
 2(x+2) &= 5x-4 \\
 2x+4 &= 5x-4 \\
 4 &= 3x-4 \\
 8 &= 3x \\
 x &= \frac{8}{3}
 \end{aligned}$$

# Chapter 5 Properties And Attributes Of Triangles Answer Key

**Colin Gardner**



## **Chapter 5 Properties And Attributes Of Triangles Answer Key:**

*Pythagorean Triangle Properties and Attributes Samples (Enlarged), As Independently Discovered by Colin Gardner, Physicist Colin Gardner, 2004-04-01* With a INFINITE number of trig equations for each side of any triple a review of this COULD be INFINITY CUBED solutions for a single triple UNITY trig equations can be developed from triples sides having IDENTICAL solutions where such UNITY solutions would change the equation on the right side of the integral sign for calculus situations Discovering new math truths is ALWAYS exciting and ALL of the contents of this ISBN is NEW Students and teachers are encouraged to evaluate the validity and significance of these equations relationships and procedures This can easily be done by just trying them out one by one and they will find out for themselves that they are true **Some Noteworthy Properties of the Triangle and Its Circles** W. H. Bruce, 2015-06-25 Excerpt from Some Noteworthy Properties of the Triangle and Its Circles 1 The triangle is the only rigid figure that is to say it is the only polygon whose sides alone determine its shape and size or whose angles determine the ratio of its sides and of all other parts 2 Every triangle has three sides three angles three altitudes three medians three interior angle bisectors three exterior angle bisectors and three perpendicular bisectors of its sides In addition to these parts of every triangle there are certain other lines and circles dependent upon these parts and their mutual relations and the variety of their interdependencies are fascinating to the student just awakening to the beauties of the science of geometry 3 In general a triangle is determined by any three of its parts one of these parts being a length whether this length be a side an altitude the radius of any one of its numerous dependent circles or any other length About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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