

Chapter 7: Similar Triangles and Trigonometry

Getting Started, page 370

- i) This is a relationship between two numbers, 3 and 5; so, it is a ratio.
- ii) This is an equation relating two equivalent ratios; so, it is a proportion.
- iii) The two triangles have the same three side and angle measures; so, they are congruent triangles.
- iv) A square is drawn on each side of the right triangle. Since the sum of the area of the blue square (a^2) and the area of the pink square (b^2) is equal to the area of the purple square (c^2), this diagram illustrates the Pythagorean theorem ($a^2 + b^2 = c^2$).
- v) The highlighted side length is the longest side of the right triangle (or opposite the right angle), which is the hypotenuse.
- vi) The highlighted angle is 30° and an acute angle is any angle less than 90° .

2. a)

$$\frac{x}{4} = \frac{9}{36}$$

$$4\left(\frac{x}{4}\right) = 4\left(\frac{9}{36}\right)$$

$$x = \frac{36}{36}$$

$$x = 1$$

b)

$$\frac{10}{15} = \frac{b}{20}$$

$$20\left(\frac{10}{15}\right) = 20\left(\frac{b}{20}\right)$$

$$\frac{40}{3} = b$$

$$13.\bar{3} = b$$

c)

$$\frac{6}{7} = \frac{15}{c}$$

$$\frac{2c}{7} = 5$$

$$7\left(\frac{2c}{7}\right) = 7(5)$$

$$2c = 35$$

$$c = 17.5$$

d)

$$\frac{2d}{9} = \frac{12}{4}$$

$$9\left(\frac{2d}{9}\right) = 9\left(\frac{12}{4}\right)$$

$$2d = \frac{108}{4}$$

$$2d = 27$$

$$d = 13.5$$

e)

$$\frac{a}{5.2} = \frac{7.8}{12.0}$$

$$5.2\left(\frac{a}{5.2}\right) = 5.2\left(\frac{7.8}{12.0}\right)$$

$$a = \frac{40.56}{12.0}$$

$$a = 3.38$$

f)

$$\frac{4.5}{y} = \frac{5.4}{2.4}$$

$$y\left(\frac{4.5}{y}\right) = y\left(\frac{5.4}{2.4}\right)$$

$$4.5 = \frac{5.4y}{2.4}$$

$$2.4(4.5) = 2.4\left(\frac{5.4y}{2.4}\right)$$

$$10.8 = 5.4y$$

$$2 = y$$

3. a) The unknown side length, c , is the hypotenuse.

$$c^2 = 3.6^2 + 4.8^2$$

$$c^2 = 12.96 + 23.04$$

$$c^2 = 36$$

$$c = \sqrt{36}$$

$$c = 6$$

The length of side c is 6.0 m.

b) $c = 17.5$ cm

$$17.5^2 = 14.0^2 + b^2$$

$$306.25 = 196 + b^2$$

$$306.25 - 196 = b^2$$

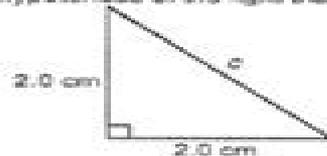
$$110.25 = b^2$$

$$\sqrt{110.25} = b$$

$$10.5 = b$$

The length of side b is 10.5 cm.

4. a) The side length of the sugar cube is 2.0 cm. The distance from corner to corner across the top is the hypotenuse of the right triangle shown.



$$c^2 = 2.0^2 + 2.0^2$$

$$c^2 = 4 + 4$$

$$c^2 = 8$$

$$c = \sqrt{8}$$

$$c = 2.8$$

The distance from corner to corner across the top of the sugar cube is about 2.8 cm.

Rudin Chapter 7 Solutions

Sabine Zange



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Problems and Examples in Differential Equations Piotr Biler, Tadeusz Nadzieja, 2020-08-11 This book presents original problems from graduate courses in pure and applied mathematics and even small research topics significant theorems and information on recent results It is helpful for specialists working in differential equations

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Thermodynamics and Diffusion in Polymer Solutions Containing Associating Species Joe Su-Shien Lin, 1980

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Image Processing and Analysis Tony F. Chan, Jianhong (Jackie) Shen, 2005-09-01 This book develops the mathematical foundation of modern image processing and low level computer vision bridging contemporary mathematics with state of the art methodologies in modern image processing whilst organizing contemporary literature into a coherent and logical structure The authors have integrated the diversity of modern image processing approaches by revealing the few common threads that connect them to Fourier and spectral analysis the machinery that image processing has been traditionally built on The text is systematic and well organized the geometric functional and atomic structures of images are investigated before moving to a rigorous development and analysis of several image processors The book is comprehensive and integrative covering the four most powerful classes of mathematical tools in contemporary image analysis and processing while exploring their intrinsic connections and integration The material is balanced in theory and computation following a solid theoretical analysis of model building and performance with computational implementation and numerical examples

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P. V. S. R. Krishnam Raju, 1978 **The Construction of Initial Data for Hyperbolic Systems from Nonstandard Data**

Kenneth P. Bube, Stanford University. Computer Science Department, 1978 We study first order systems of hyperbolic partial differential equations with periodic boundary conditions in the space variables for which complete initial data are not available We suppose that we can measure U the first j components of a solution u of the system perhaps with its time derivatives but cannot measure u the rest of the components of u completely and accurately at any time level Such problems arise in geophysical applications where satellites are used to collect data We consider two questions how much information is needed to determine the solution uniquely in a way which depends continuously on the data and how are these data computationally used to obtain complete initial data at some time level One application we examine is the effect of the Coriolis term in the linearized shallow water equations on the possibility of recovering the wind fields from the geopotential height We present algorithms and computational results for these approaches for a model two by two system and examine the method of intermittent updating currently being used in numerical weather prediction as a method for the assimilation of data Our results suggest that the use of different frequencies of updating is important to avoid slow convergence

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Chemistry on Interfacial and Transport Properties of Mixed Wastes in the Subsurface David Lawrence Lord, 1999

Handbook of Saline Water Conversion A. Delyannis, E. Delyannis, 1970 **Mathematical Reviews**, 2005 **Fourier Series** R.E. Edwards, 1979-10-31 The principal aim in writing this book has been to provide an introduction barely more to some aspects of Fourier series and related topics in which a liberal use is made of modern techniques and which guides the reader toward some of the problems of current interest in harmonic analysis generally The use of modern concepts and techniques is in fact as wide spread as is deemed to be compatible with the desire that the book shall be useful to senior undergraduates and beginning graduate students for whom it may perhaps serve as preparation for Rudin's *Harmonic Analysis on Groups* and the promised second volume of Hewitt and Ross's *Abstract Harmonic Analysis* The emphasis on modern techniques and outlook has affected not only the type of arguments favored but also to a considerable extent the choice of material Above all it has led to a minimal treatment of pointwise convergence and summability as is argued in Chapter 1 Fourier series are not necessarily seen in their best or most natural role through pointwise tinted spectacles Moreover the famous treatises by Zygmund and by Baryon trigonometric series cover these aspects in great detail while leaving some gaps in the presentation of the modern viewpoint the same is true of the more elementary account given by Tolstov Likewise and again for reasons discussed in Chapter 1 trigonometric series in general form no part of the program

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