

\* = questions similar to test questions!!

Geometry  
Chapter 8 Review Right Triangles and Trigonometry

Name Key

Date \_\_\_\_\_

(8.1) Find the unknown side length. Tell whether the side lengths form a Pythagorean triple.

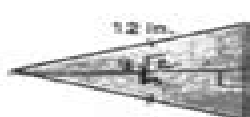
1.   $a^2 + b^2 = c^2$   
 $6^2 + 8^2 = 15^2$   
 $36 + 64 = 225$   
 $100 \neq 225$   
 Not PT!  $X = 3\sqrt{21}$

2.   $a^2 + b^2 = c^2$   
 $6^2 + 5^2 = 10^2$   
 $36 + 25 = 100$   
 $61 \neq 100$   
 Not PT!  $X = 10$

3.   $a^2 + b^2 = c^2$   
 $10^2 + 24^2 = 26^2$   
 $100 + 576 = 676$   
 $676 = 676$   
 Yes PT!  $26 = X$

(8.1) Find the area of the triangle. ( $A = \frac{1}{2}bh$ ) Why can't skip  $4-6$ !!

4.   $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(7)(10)$   
 $A = 35$   
 $A \approx 25 \text{ cm}^2$

5.   $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(12)(8)$   
 $A = 48$   
 $A \approx 45.25$

6.   $A = \frac{1}{2}bh$   
 $A = \frac{1}{2}(7)(6)$   
 $A = 21$   
 $A \approx 21 \text{ cm}^2$

(8.1/8.2) 7. Each base on a standard baseball diamond lies 90 feet from the next. Find the distance the catcher must throw a baseball from 3 feet behind home plate to second base.

  $90^2 + 90^2 = c^2$   
 $8100 + 8100 = c^2$   
 $16200 = c^2$   
 $c = 90\sqrt{2}$   
 $90\sqrt{2} + 3 \text{ ft} \rightarrow 130.28 \text{ ft.}$

(8.1) Decide whether the numbers can represent side lengths of a triangle. If they can, then classify the triangle as right, acute, or obtuse.

8.  $\sqrt{8}, 4, 6$   
 $\sqrt{8}^2 + 4^2 = 8 + 16 = 24$   
 $6^2 = 36$   
 $24 < 36$   
 obtuse

9.  $14, 48, 50$   
 $14^2 + 48^2 = 196 + 2304 = 2500$   
 $50^2 = 2500$   
 $2500 = 2500$   
 right

10.  $20, 21, 28$   
 $20^2 + 21^2 = 400 + 441 = 841$   
 $28^2 = 784$   
 $841 > 784$   
 acute

(8.2) 11. A square has side length 10 yd. What is the length of a diagonal of the square?

Express in simplest radical form.  $x = 10\sqrt{2}$  (diagonal =  $10\sqrt{2}$  yd.)

(8.2) 12. A square has diagonal length 9 m. What is the side length of the square, to the nearest centimeter?

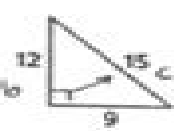
  $x^2 + x^2 = 9^2$   
 $2x^2 = 81$   
 $x^2 = 40.5$   
 $x = \sqrt{40.5} \approx 6.36396 \text{ m} \approx 636 \text{ cm}$

(8.1) 13. A repairman leans the top of an 8-ft ladder against the top of a stone wall. The base of the ladder is 5.5 ft from the wall. About how tall is the wall? Round to the nearest tenth of a foot.

  $x^2 + 5.5^2 = 8^2$   
 $x^2 + 30.25 = 64$   
 $x^2 = 33.75$   
 $x = \sqrt{33.75} \approx 5.8 \text{ ft.}$

(8.1) Is each triangle a right triangle?

14.   $19^2 + 18^2 = 361 + 324 = 685$   
 $27^2 = 729$   
 $685 \neq 729$   
 not right  $\Delta$ !

15.   $12^2 + 9^2 = 144 + 81 = 225$   
 $15^2 = 225$   
 $225 = 225$   
 yes right  $\Delta$ !

# Geometry Chapter 8 Practice B Answers

**Robert R. Redfield**



**Geometry Chapter 8 Practice B Answers:**

## **Geometry Chapter 8 Practice B Answers** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Geometry Chapter 8 Practice B Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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not pinned connection is generally used

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web aug 3 2015 the original design is for locally fabricated trusses using 1 2 plywood gussets with 8d nails set 2 on center the first side i set the nails on a slight angle so it didn t penetrate the back side of the 2x truss material the plans called for construction adhesive on the gusset truss interface

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web may 1 2015 while it is possible to use metal plates for gussets in making homemade trusses most people use plywood not only are plywood gussets easier to work with than metal ones they can be easily customized when using metal plates for gussets you are limited to the sizes available at your lumberyard

design of nailed and glued plywood gussets for lumber rigid frames - Nov 11 2022

web i design of nailed and glued plywood gussets for lumber rigid frames by j o curtis  
university of illinois agricultural experiment station bulletin 654