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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.



$$a^2 + b^2 = c^2$$

$$6^2 + x^2 = 15^2$$

$$36 + x^2 = 225$$

$$-36 \quad -36$$

$$x^2 = 189 \rightarrow \sqrt{x^2 = 21}$$

$$x = 3\sqrt{21}$$

Not PT!



$$a^2 + b^2 = c^2$$

$$6^2 + 5^2 = x^2$$

$$36 + 25 = x^2$$

$$\sqrt{61} = \sqrt{x^2}$$

$$\sqrt{61} = x$$

Not PT!



$$a^2 + b^2 = c^2$$

$$10^2 + 24^2 = x^2$$

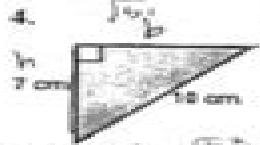
$$100 + 576 = x^2$$

$$\sqrt{676} = \sqrt{x^2}$$

$$26 = x$$

Yes PT!

(8.1) Find the area of the triangle. ($A = \frac{1}{2} b \cdot h$) Myra can skip $\rightarrow 4 \cdot 6$!!



$$A = \frac{1}{2} bh$$

$$A = \frac{1}{2} (7)(10)$$

$$A = 3.5 \sqrt{51}$$

$$A \approx 25 \text{ cm}^2$$



$$4^2 + h^2 = 12^2$$

$$16 + h^2 = 144$$

$$-16 \quad -16$$

$$h^2 = 128$$

$$h = 8\sqrt{2}$$

$$A = \frac{1}{2} bh$$

$$A = \frac{1}{2} (4)(8\sqrt{2})$$

$$A = 32\sqrt{2}$$

$$A \approx 45.25$$



$$A = \frac{1}{2} bh$$

$$A = \frac{1}{2} (7)(6)$$

$$A = 21 \text{ cm}^2$$

(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.



$$90^2 + 90^2 = c^2$$

$$8100 + 8100 = c^2$$

$$\sqrt{16200} = c$$

$$c = 90\sqrt{2} \text{ ft.} + 3 \text{ ft.} \rightarrow 90\sqrt{2} + 3 \text{ ft.}$$

$\approx 130.28 \text{ ft.}$

(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. $\sqrt{8}, 4, 6$

$$\sqrt{8} + 4 > 6$$

$$4 + 6 > \sqrt{8}$$

$$\sqrt{8} + 6 > 4$$

$$c^2 = a^2 + b^2$$

$$6^2 = \sqrt{8}^2 + 4^2$$

$$36 = 8 + 16$$

$$36 > 24 \text{ obtuse}$$

9. 14, 48, 50

$$14^2 + 48^2 = 50^2$$

$$196 + 2304 = 2500$$

$$2500 = 2500 \text{ right}$$

10. 20, 21, 28

$$20^2 + 21^2 = 28^2$$

$$400 + 441 = 784$$

$$784 < 784 \text{ acute}$$

(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.



$$10^2 + 10^2 = x^2$$

$$200 = x^2$$

$$\sqrt{200} = x$$

$$x = 10\sqrt{2} \text{ yd.}$$

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



$$x^2 + x^2 = 9^2$$

$$2x^2 = 81$$

$$x^2 = 40.5$$

$$x = \sqrt{40.5} \approx 6.3639 \text{ m} \approx 636 \text{ cm}$$

(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.



$$x^2 + 5.5^2 = 8^2$$

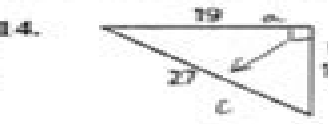
$$x^2 + 30.25 = 64$$

$$-30.25 \quad -30.25$$

$$x^2 = 33.75$$

$$x = 5.8 \text{ ft.}$$

(8.1) Is each triangle a right triangle?



$$19^2 + 18^2 = 27^2$$

$$361 + 324 = 729$$

$$685 \neq 729$$

not right Δ !



$$a^2 + b^2 = c^2$$

$$9^2 + 12^2 = 15^2$$

$$81 + 144 = 225$$

$$225 = 225$$

yes right Δ !

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Léo Pomar



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Subject Guide to Books in Print, 1997 *Resources in Education*, 1997 **Matchmoving** Tim Dobbert, 2012-10-26

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High Resolution NMR Edwin D. Becker, 1999-10-08 High Resolution NMR provides a broad treatment of the principles and theory of nuclear magnetic resonance NMR as it is used in the chemical sciences It is written at an intermediate level with mathematics used to augment rather than replace clear verbal descriptions of the phenomena The book is intended to allow a graduate student advanced undergraduate or researcher to understand NMR at a fundamental level and to see illustrations of the applications of NMR to the determination of the structure of small organic molecules and macromolecules including proteins Emphasis is on the study of NMR in liquids but the treatment also includes high resolution NMR in the solid state and the principles of NMR imaging and localized spectroscopy Careful attention is given to developing and interrelating four approaches steady state energy levels the rotating vector picture the density matrix and the product operator formalism The presentation is based on the assumption that the reader has an acquaintance with the general principles of quantum mechanics but no extensive background in quantum theory or proficiency in mathematics is required Likewise no previous background in NMR is assumed since the book begins with a description of the basic physics together with a brief account of the historical development of the field This third edition of High Resolution NMR preserves the conversational approach of the previous editions that has been well accepted as a teaching tool However more than half the material is new and the remainder has been revised extensively Problems are included to reinforce concepts in the book Uses

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