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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.

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

(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.

 $90^2 + 90^2 = c^2$
 $8100 + 8100 = c^2$
 $16200 = c^2$
 $c = 127.28$
 $c = 90\sqrt{2} \text{ ft.} + 3 \text{ ft.} \rightarrow 90\sqrt{2} + 3 \text{ ft.}$
 $\approx 130.28 \text{ ft.}$

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

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

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