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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.

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


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

  $x = \frac{9}{\sqrt{2}}$   
 $x = 6.36396 \text{ m} \approx 636 \text{ cm}$

(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.

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

(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  $\Delta$ !

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**Ian Pickup**



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