# = questions similar to test questions!!	
Chapter 8 Review Right Triangles and Trigonometry	
Name	
(8.1) Find the unknown side length. Tell whether the side lengths form a Pythagorean triple.	2
$a^{2}+b^{2}=c^{2}$ $a^{2}+b^{2}=c^{2}$ $a^{2}+b^{2}=c^{2}$ 3.	2
1. $a^2+b^2=c^2$ $b^2+b^2=c^2$	
$\frac{1}{4}$ $\frac{15}{5}$ $36 + x^2 = 225$ $\frac{6}{36 + 25} = x^2$ $\frac{24}{6}$ $\frac{160 + 976}{160 + 976} = \frac{1}{2}$	(2
6 76 - 36 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7
(8.1) Find the area of the triangle. $(A = \frac{1}{2}b * h) $ Hyru can skip * 4-6!!  4. $A = \frac{1}{2}bh$ 5. $A = \frac{1}{2}bh$	
4. b H= 3 DY 5. A= 3 bh	
1) 11 s and an	2)
(A × 49, 25)	N
$7^{2}+b^{2}=10^{2}$ ( $b^{2}=61$ ) $4^{2}+h^{2}=12^{2}$ $h=8\sqrt{2}$ $16+h^{2}=144$	
$7^{2}+b^{2}=10^{2}$ $1b^{2}=61$ $12^{2}$ $12^{$	
(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.	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
(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. $\sqrt{8}$ , $4$ , $6$ $C^2 = a^2 + b^2$ $\sqrt{9}$ . $14$ , $48$ , $50$ $60^2 = 14^2 + 48^2$ $\sqrt{10}$ . $20,21,28$ $\sqrt{8} + 47 + 48 + 48 + 48 + 48 + 48 + 48 + 48$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
(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. $10 \times 10^{-10}$ $\rightarrow \times 10^{-10}$ diagonal = $10\sqrt{2}$ y d.)	
(8.2) 12. A square has diagonal length 9 m. What is the side length of the square, to the	
nearest centimeter? $\sqrt{\frac{9}{12}} \times \sqrt{\frac{9}{12}} \times \sqrt{\frac{1}{12}} \times \sqrt{\frac{1}{1$	
(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. $\frac{3}{2}$ $\times$ $\frac{1}{2}$ $\times$ $\frac{1}{2}$ $\times$	
(8.1) Is each triangle a right triangle?? $5.5 \text{ b}$ $1.30.25 = 64$ $1.30.25 = 30.25$ $1.30.25 = 30.25$	
$\frac{a^2 + b^2 c^2}{19^2 + 19^2 - 37^2}$	
14. $h = 7.1 + 27.4 = 7.29$ 15. $h = 6.46 = 0.2$	
18 685 7729 12 15 92+12=15	
right A!) 225=225	
Yes right A!	



