

Chapter 8 Review

Do you know the...

Definition of a geometric mean?	
Proper way to simplify a ratio?	
Proper way to simplify a radical?	
Pythagorean Theorem?	
Converse of the Pythagorean Theorem?	

Do you know the ...

Way to determine if a triangle is right, acute, or obtuse?	
Pythagorean Triples?	
Pattern Right Triangles?	
Tangent Ratio?	
Sine Ratio?	
Cosine Ratio?	

Do you know the ...

When to use inverse tangent, inverse sine, and inverse cosine function?	
How to use your calculator?	
How to use trigonometric tables?	

Simplify

1. $3\sqrt{50}$

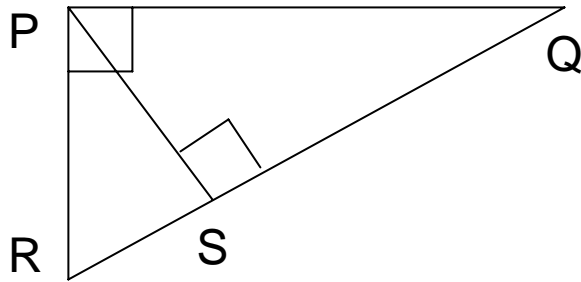
2. $\frac{12}{\sqrt{3}}$

3. $\sqrt{\frac{3}{48}}$

Theorems and Corollaries

- Complete the following statement in 3 distinct ways:
“If I have a right triangle and I draw an altitude from the hypotenuse to the right angle, then
...”
...

Altitudes



If $RS = 2$ and $SQ = 8$, find PS .

If $RP = 10$ and $RS = 5$, find SQ .

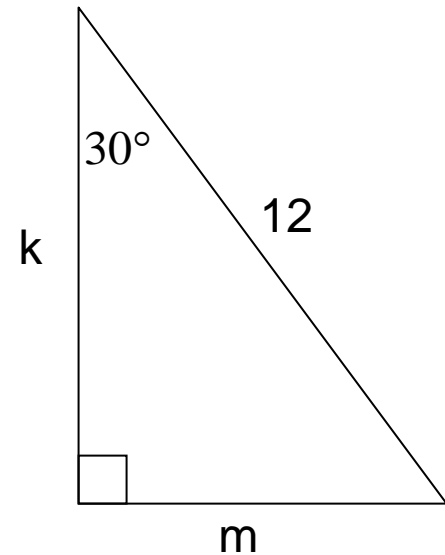
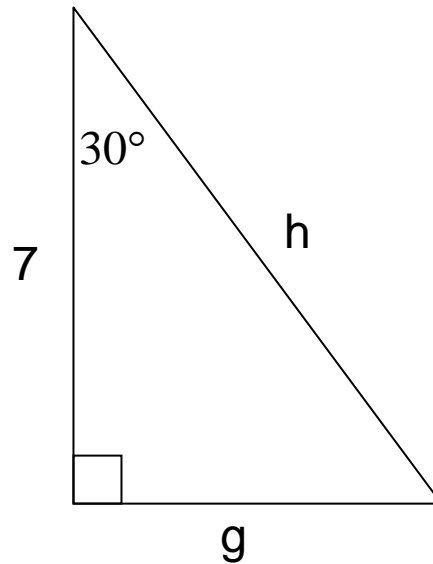
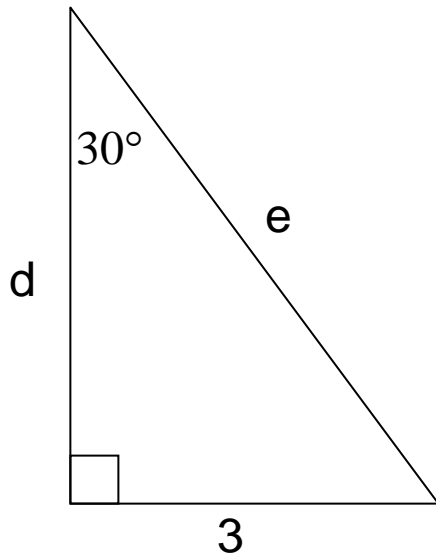
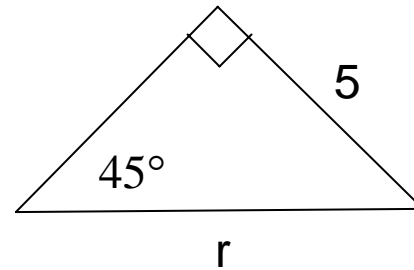
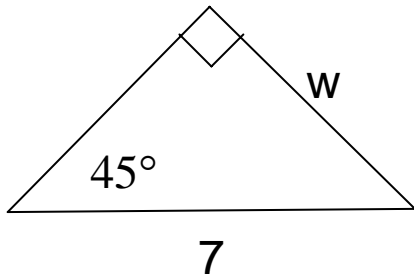
Find the exact value of the missing side of the right triangle!

A	B	C
3	9	?
7	?	15
?	15	17

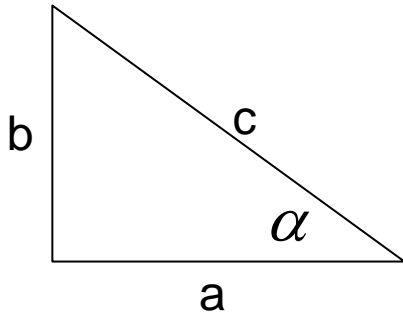
Acute? Obtuse? Right?

A	B	C	Acute? Obtuse? Right?
7	15	16	
3	4	6	
$\sqrt{7}$	$\sqrt{18}$	5	

Find the exact lengths of missing sides



Find estimated values to nearest tenth



	a	b	c	α	$\sin \alpha$	$\cos \alpha$	$\tan \alpha$
1.	3	7					
2.		5	9				
3.			4	8°			
4.	6			9°			