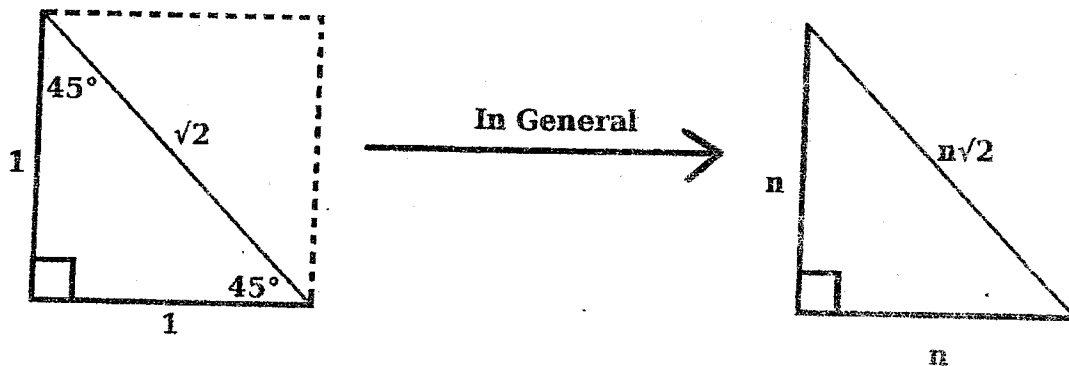


Special Right Triangles

Angle Based

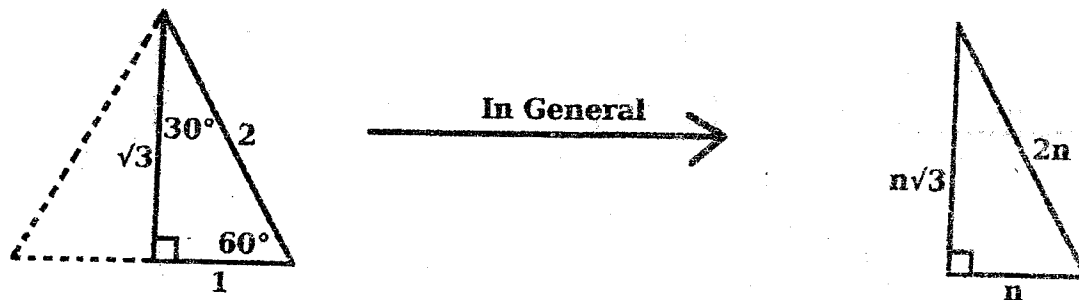
$45^\circ - 45^\circ - 90^\circ$

Constructed by slicing a square down its diagonal.



$30^\circ - 60^\circ - 90^\circ$

Constructed by slicing an equilateral triangle down its altitude.

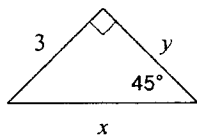


WS: Special Right Triangles

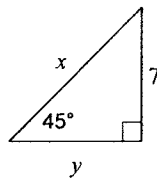
Period _____

Find the missing side lengths. Leave your answers as radicals in simplest form.

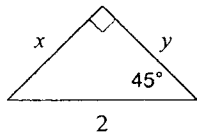
1)



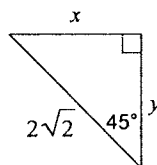
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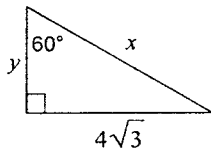
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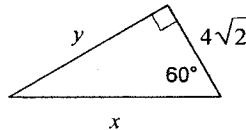
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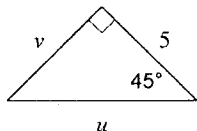
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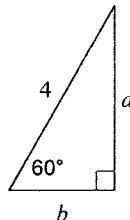
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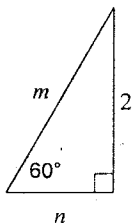
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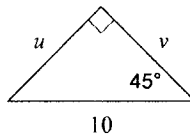
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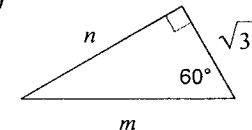
9)



10)

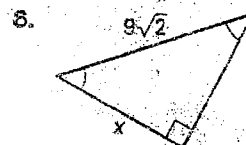
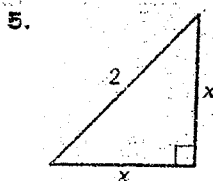
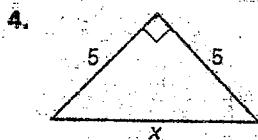
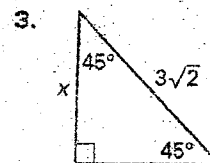
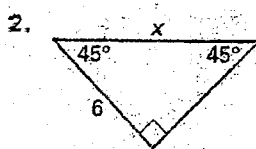
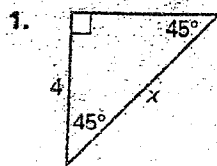


11)

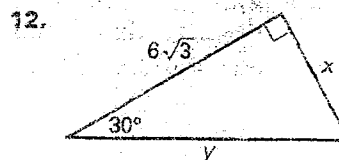
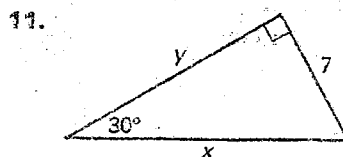
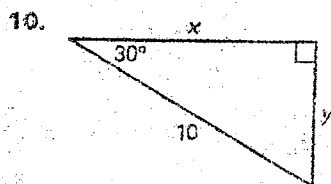
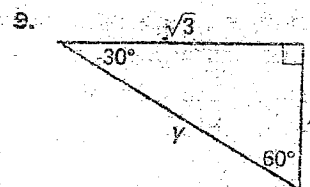
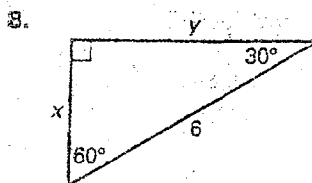
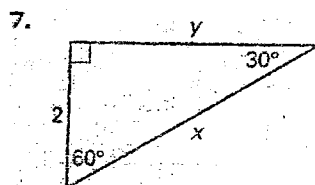


Math 13 - Special Right A Review

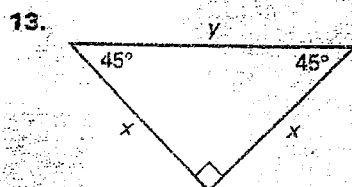
Find the value of x . Write your answer in simplest radical form.



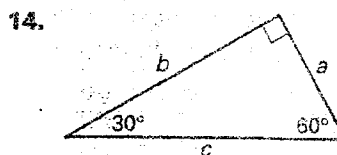
Find the value of each variable. Write your answers in simplest radical form.



Copy and complete the table.



	2		4		7
		$\sqrt{2}$		$3\sqrt{2}$	



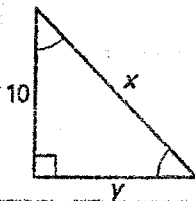
a	5			6	
b		$2\sqrt{3}$			
c			8		22

Name _____

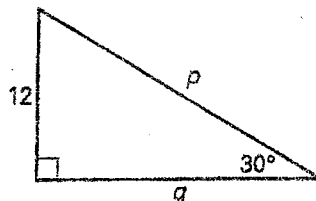
Date _____

Find the value of each variable. Write your answers in simplest radical form.

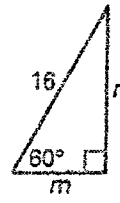
15.



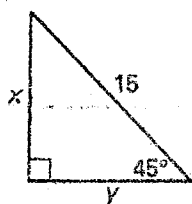
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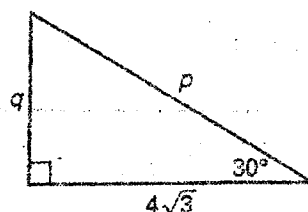
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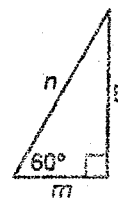
18.



19.

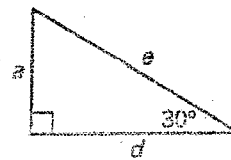
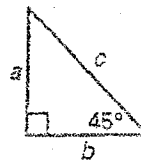


20.

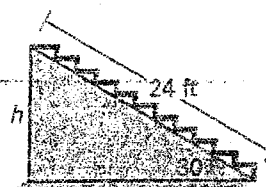


21. Multiple Choice In the diagrams to the right, which side length is the longest?

A. a B. b
C. c D. d



22. Bleachers A 24 foot long bleacher stand has a base angle of 30° . How high above the ground is the last row of seating?



23. Baseball The baselines of a baseball field form a square. The distance from home plate to first base is 90 feet. Use the diagram at the right. Round decimal answers to the nearest inch.
- What is the distance from home plate to second base?
 - What is the distance from third base to first base?
 - The pitcher's mound is 60 feet 6 inches from home plate. Is it the midpoint of the diagonal from home plate to second base? If not, what is the midpoint?

