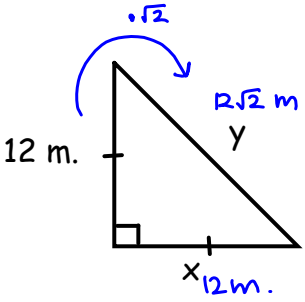
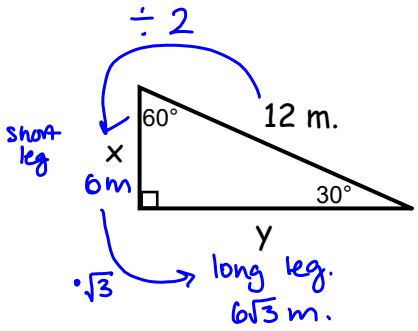
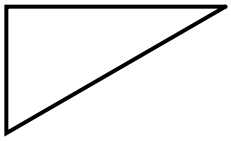
Warm-up 2-3

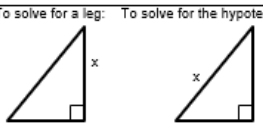
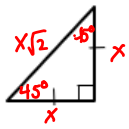
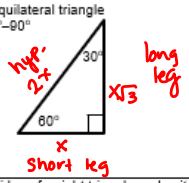
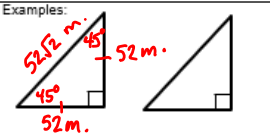
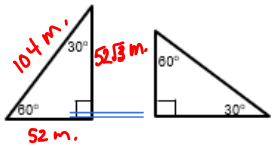
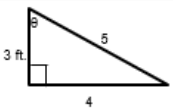
Find the missing side lengths:



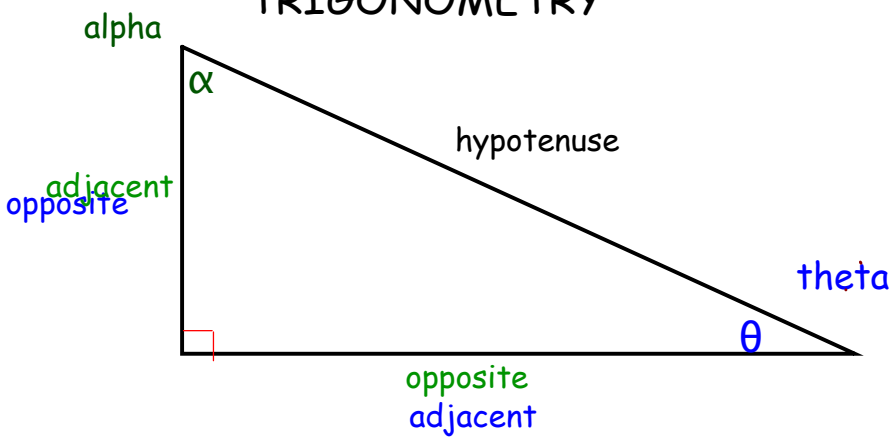




cheat sheets / tool kits

Geometry Unit 6 I can use trigonometric ratios and the Pythagorean Theorem to solve right triangles.		
	Notes	Example problems
G6-1 I can use the Pythagorean Theorem:		
Warm-up G6-1	Use it when:	To solve for a leg: To solve for the hypotenuse: 
G6-2 I can find the side lengths of special right triangles:		
Warm-up G6-2	isosceles right triangle 45°-45°-90°  half an equilateral triangle 30°-60°-90° 	Examples:  
G6-3 I can Label the sides of a right triangle and write the trig ratio.		
Warm-up G6-3	Sine Cosine Tangent	 

TRIGONOMETRY



Three functions -- sine, cosine and tangent

either angle

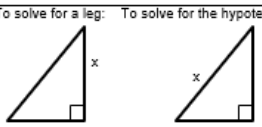
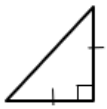
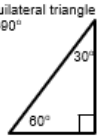
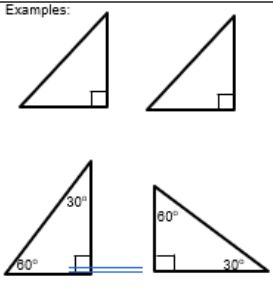
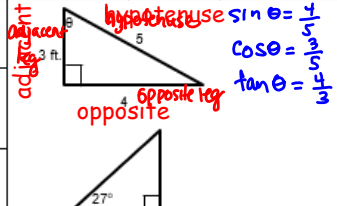
$$\sin\alpha = \frac{\text{length of the opposite side}}{\text{length of the hypotenuse}} = \frac{\text{opp}}{\text{hyp}}$$

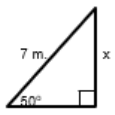
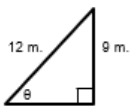
$$\cos\alpha = \frac{\text{length of the adjacent side}}{\text{length of the hypotenuse}} = \frac{\text{adj}}{\text{hyp}}$$

$$\tan\alpha = \frac{\text{length of the opposite side}}{\text{length of the adjacent side}} = \frac{\text{opp}}{\text{adj}}$$

Geometry Unit 6

I can use trigonometric ratios and the Pythagorean Theorem to solve right triangles.

	Notes	Example problems
G6-1 I can use the Pythagorean Theorem:		
Warm-up G6-1	Use it when: |	To solve for a leg: To solve for the hypotenuse: 
G6-2 I can find the side lengths of special right triangles:		
Warm-up G6-2	isosceles right triangle 45°-45°-90°  half an equilateral triangle 30°-60°-90° 	Examples: 
G6-3 I can Label the sides of a right triangle and write the trig ratios		SOH CAH TOA
Warm-up	Sine $\sin\Theta = \frac{\text{opp}}{\text{hyp}}$	
	Cosine $\cos\Theta = \frac{\text{adj}}{\text{hyp}}$	
G6-3	Tangent $\tan\Theta = \frac{\text{opp}}{\text{adj}}$	

	Notes	Example problems
G6-4 I understand that by similarity, side ratios in right triangles are properties of the angles in the triangle.		
Warm-up G6-4		
G6-5 I can use trigonometry to find missing side lengths or angles.		
Warm-up G6-5	Steps: $\sin^{-1}$ | $\cos^{-1}$ | $\tan^{-1}$	 
G6-6 I can apply trig ratios and the Pythagorean theorem.		
Warm-up G6-6		
Warm-up	****G6-7 I can use the law of sines to find missing side lengths in any triangle.	

Warm-up group test day Feb. 18-19	Warm-up on test day. Feb. 20-21	10 stamps = A second rough grade on a test. "Which ones are still wrong?" 10 stamps = I **point** out where you made your error on a test problem.

Any questions on G4-0?