

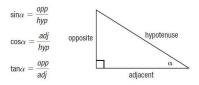
REVIEW: MATH SKILLS

Trigonometry
(P.653)



Trigonometry

The first application of trigonometry was to solve right-angle triangles. Trigonometry derives from the fact that for similar triangles, the ratio of corresponding sides will be equal. For a given angle α in a right triangle, there are three important ratios: sine, cosine, and tangent. These are called the **primary trigonometric ratios** and they can be used to find the measures of unknown sides and angles in right triangles.



September 7, 2012

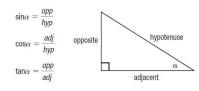
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Trigonometry

NOTE!

DEG, RAD, and GRAD are different units/modes used for measuring angles. For this course make sure that your calculator is always in DEG mode. (Hint: if you are not getting the correct answers for a trigonometry problem start by checking this!)



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Trigonometry	
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PRACTICE	
Determine the value of each ratio rounded to four decimal places.	
(a) sin 35° 0.5736	
(b) cos 60° 0.5000	
(c) tan 45° 1.0000	
(d) cos 75° 0.2588	
(e) sin 18° 0.3090	
(4)	
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Trigonometry	
RECALL!	
If the value of a trigonometric ratio is known, its corresponding angle can	
be found using the inverse of that ratio. For example, if $\cos \theta = 0.50$ then	
$\theta = \cos^{-1}(0.50).$	
• for sin ⁻¹ use: 2nd sin	
· IOI SIII use.	
• for cos-1 use: 2nd cos	
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• for tan -1 use: 2nd tan	
Lita Carr	
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PRACTICE	
2. Determine the size of ∠A rounded to the nearest degree.	
(a) sin A = 0.5299 32°	
(a) $\sin A = 0.3239$	
(c) tan A = 4.3315 77°	
(d) cos A = 0.5000 60°	
(a) $\cos A = 0.3000$ (b) (e) $\sin A = 0.2419$ 14°	
(C) 311 M = 0.2713 17	1

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