

Inverse Function Quiz

When you see the word arccos it means the same as \cos^{-1}

For example:

$\arccos(\cos \theta)$ is the same as $\cos^{-1}(\cos \theta)$

Jan 18-7:50 AM

Homework 6.3 Inverse Questions

(29) $\cos(\sin^{-1}(2x))$ $\sin^{-1} \frac{2x}{1} \frac{y}{hyp}$

$(2x)^2 + b^2 = 1$
 $4x^2 + b^2 = 1 - 4x^2$
 $-4x^2$
 $b = \sqrt{1-4x^2}$

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\cos $\frac{\sqrt{1-4x^2}}{1} \frac{adj}{hyp}$
 $\sqrt{1-4x^2}$

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$\frac{X}{1} \frac{opp}{adj}$

$\frac{X}{\sqrt{X^2+1}}$

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(13) $\tan^{-1}(\tan \frac{2\pi}{3})$ $\frac{\sqrt{3}}{2} - \sqrt{3}$

$\tan^{-1} -\sqrt{3}$ $\frac{-1}{2}$

$\tan \text{ neg } Q4$ $\frac{-\pi}{3}$

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(20) $\sin(\cos^{-1} \frac{4}{5})$ $\frac{4}{5} \frac{x}{hyp}$ $\frac{3}{5}$

$25 - 16 = 9$ $\sqrt{9}$

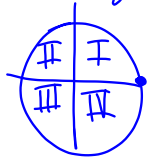
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Calendar Math January
 Two and Three Dimensional Objects
 Cross section: A 2D surface or shape made from a plane, cutting a 3D figure along an axis.

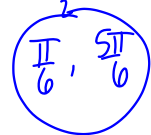
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Cone: 3D figure that has a circle base and a vertex that is not in the same plane as the base.
 Slice through vertex.
 Cross section: *triangle*
 Slice parallel to the base.
 Cross section: *circle*
 Slice diagonally through the base.
 Cross section: *Parabola* 
 Slice diagonally, NOT through the base.
 Cross section: *ellipse*


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6.4 Solving Trig Equations ^{pg. 59 part 2}
 $0 \leq x < 2\pi$
 USE all 4 Quad 
 The restriction is given in radians answer(s) should be in radians $\cos^{-1} 1$

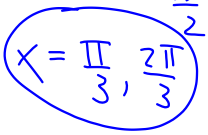
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a) $\sin x = \frac{1}{2}$ what angle has a y-value of $\frac{1}{2}$?
 $\sin^{-1} \frac{1}{2}$ 

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b) $\cos x = -1$


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c) $x = \frac{2}{\sqrt{3}}$ Reciprocal of both sides
 $\sin x = \frac{\sqrt{3}}{2}$


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③ $\tan x = -1$

If the tan is -1
then x and y are
the same # with
opposite signs

$\frac{3\pi}{4}, \frac{7\pi}{4}$

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⑭ $\csc x = 2$

$\sin x = \frac{1}{2}$

$x = \frac{\pi}{6}, \frac{5\pi}{6}$

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⑮ $\cot x = -\sqrt{3}$

$\frac{x}{y} = \frac{\sqrt{3}}{-1}$

$\frac{5\pi}{6}, \frac{11\pi}{6}$

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6.4 #1-18 homework

Jan 18-10:01 AM