

Pull out your 6.2 and make sure it is finished.

Then...

Unit Circle Test (6.1-6.2)

Make sure you have your Unit Circle memorized.

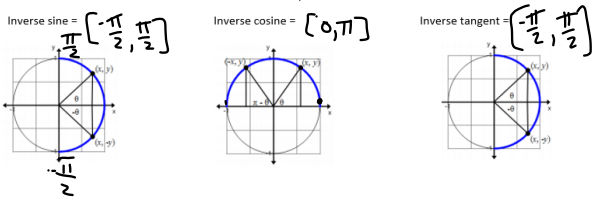
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Homework Questions:

Jan 6-1:42 PM

6.3 Inverse Trig

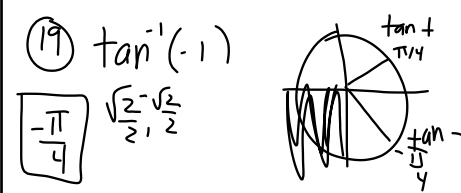
For inverse functions the domain is restricted to certain quadrants of the unit circle.



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Find the exact value of expression without a calculator.

a. $\sin^{-1} \frac{\sqrt{2}}{2}$	b. $\cos^{-1} \frac{1}{2}$	c. $\tan^{-1}(1)$
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7 $\sin^{-1}(-1)$

$-\frac{\pi}{2}$



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Find the exact value of the expression.

a. $\sin^{-1}(0.3)$	b. $\cos^{-1}(\cos(\frac{\pi}{6}))$	c. $\tan^{-1}(\frac{0}{-1})$
.3	$\cos^{-1} \frac{\sqrt{3}}{2}$	0
$\sin^{-1}(\frac{\sqrt{2}}{2})$	$\frac{5\pi}{6}$	$\tan \pi y = 0$ $x = -1$

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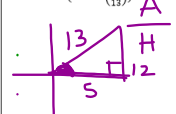
⑧ $\tan^{-1}(\tan \frac{\pi}{3})$ $\tan \frac{5\pi}{3}$
 $\tan^{-1}(-\sqrt{3})$ $(\frac{1}{2}, -\frac{\sqrt{3}}{2})$
 $(-\frac{\pi}{3})$ \times


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⑩ $\cos^{-1}(\cos \frac{7\pi}{4})$
 $\cos^{-1}(\frac{\sqrt{2}}{2})$
 $(\frac{\pi}{4})$

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Find the exact value of the expression. *Sofa CAH TOA Draw a Δ*

a. $\tan(\cos^{-1}(\frac{5}{13}))$ *A*

 $13^2 = 5^2 + y^2$
 $169 = 25 + y^2$
 $144 = y^2$
 $12 = y$


b. $\cos(\sin^{-1}(-\frac{1}{4}))$

 $4^2 = (-1)^2 + x^2$
 $16 = 1 + x^2$
 $15 = x^2$
 $\sqrt{15} = x$

Write $\sin(\cos^{-1}x)$ as an algebraic expression if $0 < x \leq 1$
 $0 < x \leq 1$ *x-axis 90°*

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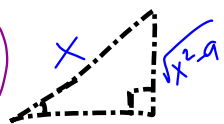
$\sin(\cos^{-1}x)$ *X A H*
 $\frac{x}{1} \frac{A}{H}$

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



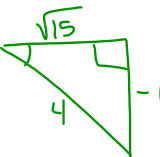
$\sqrt{1-x^2}$

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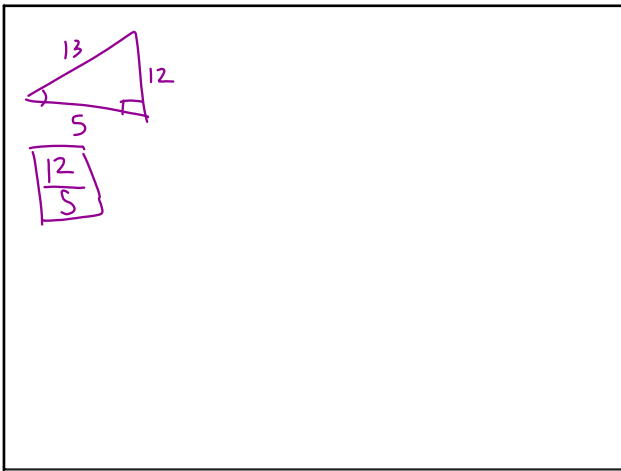
③⑥ $\cos(\sin^{-1}(\frac{\sqrt{x^2-9}}{x}))$ *X*

 $x^2 = (\sqrt{x^2-9})^2 + 9^2$
 $x^2 = x^2 - 9 + 9^2$
 $-x^2 - x^2 = -9 + 9^2$
 $0 = -9 + 9^2$
 $\sqrt{9} = \sqrt{9^2}$
 $3 = 9$

$\frac{3}{x}$

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$\frac{\text{adj}}{\text{Hyp}} = \frac{\sqrt{15}}{4}$


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