Trigonometric Inverse Functions

Proving inverse trigonometric properties & identities

1)
$$\sin^{-1}(-x) = -\sin^{-1}x$$

 $\cos^{-1}(-x) = \pi - \cos^{-1}x$
 $\tan^{-1}(-x) = -\tan^{-1}x$
 $\sec^{-1}(-x) = \pi - \sec^{-1}x$
 $\csc^{-1}(-x) = -\csc^{-1}x$
 $\cot^{-1}(-x) = \pi - \cot^{-1}x$

3)
$$\sin^{-1}x + \cos^{-1}x = \frac{\pi}{2}$$

 $\tan^{-1}x + \cot^{-1}x = \frac{\pi}{2}$
 $\sec^{-1}x + \csc^{-1}x = \frac{\pi}{2}$

2)
$$\sin^{-1}\frac{1}{x} = \csc^{-1}x$$

 $\cos^{-1}\frac{1}{x} = \sec^{-1}x$
 $\tan^{-1}\frac{1}{x} = \cot^{-1}x$

4) $sin(sin^{-1}x) = x$ $cos(cos^{-1}x) = x$ $tan(tan^{-1}x) = x$ $sec(sec^{-1}x) = x$, $cosec(cosec^{-1}x) = x$ $cot(cot^{-1}x) = x$

Lecture 3

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J Rink

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