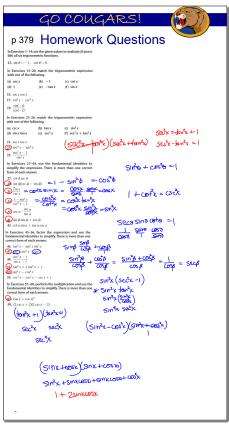


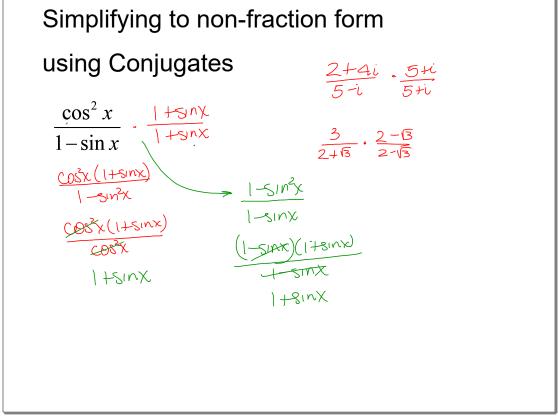
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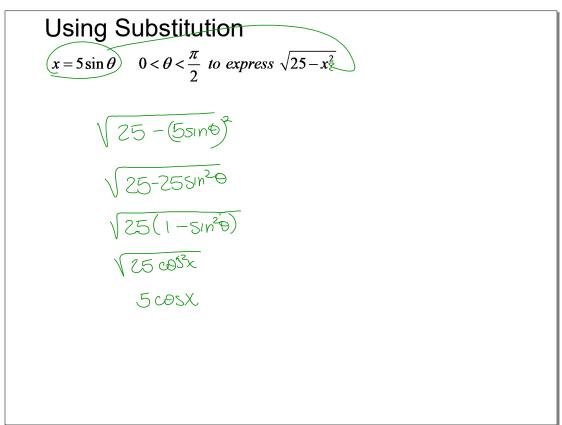
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5.1 Simplifying Trigonometric Expressions day 2

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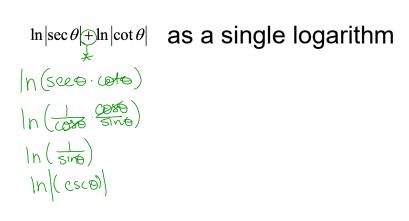


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Using Identities to rewrite an expression



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Cofunction Identities

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos\theta \qquad \cos\left(\frac{\pi}{2} - \theta\right) = \sin\theta$$

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot\theta \qquad \cot\left(\frac{\pi}{2} - \theta\right) = \tan\theta$$

$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec\theta \qquad \sec\left(\frac{\pi}{2} - \theta\right) = \csc\theta$$

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Simplify

$$\cot\left(\frac{\pi}{2} - x\right)\cos x$$

$$+ \cos x$$

$$\frac{\sin x}{\cos x}$$

$$\frac{\sin x}{\cos x}$$

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Even Trig Functions:

$$COSX$$
 $SCCX$ $COSX = COS(-x)$

Odd Trig Functions:

tanx
$$Sin X$$
 $-Sin X = Sin (-x)$
 $-tan X = tan (-x)$
 $Cot X$ $Csc X$

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HOMEWORK



p 379 37, 39, 61-67 odd, 73, 75 algebraically, 79, 81, 91, 93

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