

November 15

How are trig expressions  
similar to and different from  
polynomial expressions?

$$\sin x + 1 = 0 \quad x + 1 = 0$$

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Students will verbally explain how to  
use trig identities to verify equations

(using the words:  
identity, reciprocal, quotient ...)

<u>Reciprocal Identities</u> $\sin(\theta) = \frac{1}{\csc(\theta)}$ $\csc(\theta) = \frac{1}{\sin(\theta)}$ $\cos(\theta) = \frac{1}{\sec(\theta)}$ $\sec(\theta) = \frac{1}{\cos(\theta)}$ $\tan(\theta) = \frac{1}{\cot(\theta)}$ $\cot(\theta) = \frac{1}{\tan(\theta)}$	<u>Quotient Identities</u> $\cot(\theta) = \frac{\cos(\theta)}{\sin(\theta)}$ $\tan(\theta) = \frac{\sin(\theta)}{\cos(\theta)}$	<u>Pythagorean Identities</u> $\sin^2(\theta) + \cos^2(\theta) = 1$ $1 + \cot^2(\theta) = \csc^2(\theta)$ $\tan^2(\theta) + 1 = \sec^2(\theta)$
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pg 227 # 1 - 10 AND

Pick one:

#11 – 31 (odd)

OR

#11 – 44 (every 3<sup>rd</sup> problem)