

Happy Monday, March 6th!

Do Now: GRAB FOLDERS AND WARM UP.

- 1) Write grades on gradesheet
- 2) Look over test and write down (on warm-up) one thing you did well and one thing that needs improvement.

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So what now?

- There will NOT be a Quarter Mandatory
- There WILL be optional reassessments before Q3 ends.
- Final Mandatory will have:
  - U6LT3 Inverse Trig
  - U6LT4 Law of Sine/Cosine
  - U7LT3 Modeling
  - U8LT1 Proofs
  - U8LT2 Solving
  - U9 (~~two~~<sup>3,4</sup> targets - converting to polar and polar graphing)

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What about reassessments?

- By the end of the semester, you can complete up to 3 "re-reassessments" (the writing ones)
- Still beneficial to **Optional Reassess on a Mandatory**
- **Optional (one day) at end of semester**

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Take-home quiz this weekend  
Optional Quarter Reassessment next  
Thursday, March 16th

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Short Worksheet

1.  $\sec x \cot x \sin x = 1$       2.  $\cos x (\csc x - \sec x) = \cot x - 1$

3.  $\cos^2 x (1 + \tan^2 x) = 1$       4.  $\cos^2 x \sin x - \cos^4 x \sin x = \cos^2 x \sin^3 x$

5.  $\sin^3 x - \sin^5 x = \sin^3 x \cos^2 x$       6.  $\cot x + \tan x = \csc x \sec x$

$$\sin^3 x (1 - \sin^2 x)$$

$$\sin^3 x (\cos^2 x)$$

$$x^3 - x^5$$

$$x^3 (1 - x^2)$$

□  
QED

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Long Worksheet

$$\frac{1}{\sin x \cdot \cos x} - \frac{\cos x}{\sin x \cos x} = \frac{\cot x}{\cos x}$$

$$\frac{1}{\sin x \cos x} - \frac{\cos x}{\sin x \cos x} = \frac{\cot x}{\cos x}$$

$$\frac{1 - \cos^2 x}{\sin x \cos x} = \frac{\cot x}{\cos x}$$

$$\frac{\sin^2 x}{\sin x \cos x} = \frac{\cot x}{\cos x}$$

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

$$\sin x = \cot x$$

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

$$\frac{1 + \sin x}{\cos^2 x} + \frac{1 + \sin x}{\cos^2 x} = \frac{1 + \sin x}{\cos^2 x}$$

$$\frac{1 + \sin x}{\cos^2 x} = \frac{1 + \sin x}{\cos^2 x}$$

$$\frac{1 + \sin x}{\cos^2 x} = \frac{1 + \sin x}{\cos^2 x}$$

$$\frac{1}{\cos x} + \frac{1}{\cos x} = \frac{1 + \sin x}{\cos^2 x}$$

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What can I replace?

On your worksheet, write down the identity and what you would replace it with if you saw it in a proof.

Example  $\sin^2 x + \cos^2 x = 1$

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$$\csc^2 x - \cot^2 x = 1$$

$$\sin^2 x + \cos^2 x = \csc^2 x - \cot^2 x$$
$$1$$
$$\csc^2 x - \cot^2 x$$

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$$\sec^2 x - 1 = \tan^2 x$$

$$\frac{1}{\cos^2 x} - 1$$

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$$\frac{1}{\sin} \cdot \frac{\sin}{1} = 1$$

$\text{csc}(x)\sin(x) = 1$

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