

More Exact Values

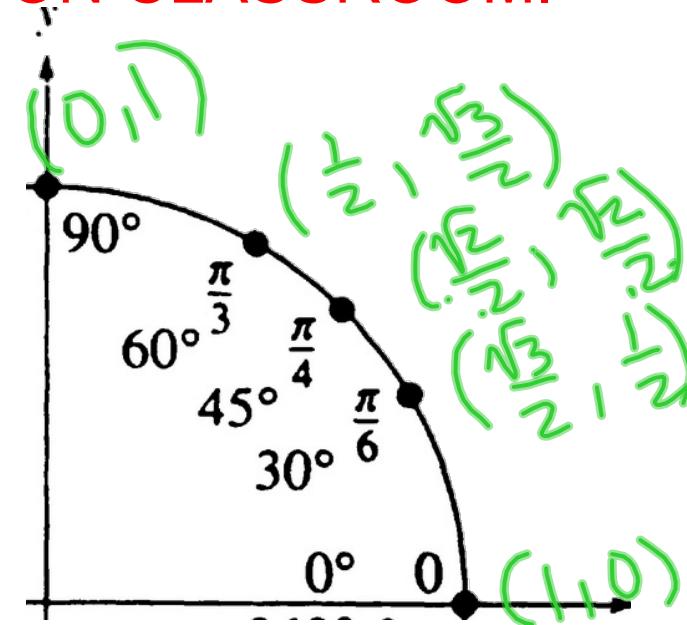
TURN IN YOUR MODELING PROJECT! LINK SHOULD ALREADY BE SUBMITTED ON CLASSROOM.

Warm-Up Monday

Label the coordinates of the unit circle for the first quadrant.

About Me

1. Would you rather play a game of Quidditch or take a field trip with Ms. Frizzle?
2. Thunder or lightning?



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Sara Korotkov
Oct 23 (Edited 11:17 AM) ...

Assignments
Due 2:35 PM

Modeling Project (QUIZ grade)
Please attach the **LINK** to your desmos graph and turn in the paper when you get to class!

 PC Temperature Modeling Project.pdf
PDF

1. Would you rather play a game of Quidditch or take a field trip with Ms. Frizzle?
2. Thunder or lightning?

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Name: _____

INVERSE TRIG VALUES

PRECALCULUS - UNIT 4 HW CALENDAR

Monday	Tuesday	Wednesday	Thursday	Friday
30 <i>Modeling Project (Quiz Grade!) Due</i> Exact Values Review	31 4.1 Inverse Values on the Unit Circle	11/1 4.1 Inverse Values on the Unit Circle	2 Quiz 4.1	3 4.2 Inverse Parent Functions
6 4.3 Principal Inverse Values	7 4.4 Compositions	8 Work Day	9 Review	10 Test 4.1-4.4

ASSIGNMENTS & ANSWER KEYS CAN BE FOUND AT WWW.MSKMATH.COM

More Exact Values

EQ: How do I simplify expressions using exact values?

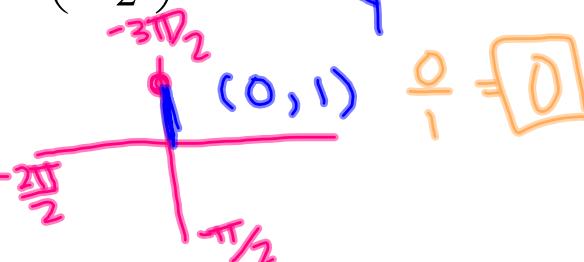
1. $\cos \frac{7\pi}{4}$ ref $< 45^\circ$

$$\cos \theta = \frac{A}{H} = \frac{1}{\sqrt{2}}$$



2. $\cot\left(-\frac{3\pi}{2}\right)$

$$\begin{matrix} \tan & \frac{1}{x} \\ \cot & x \end{matrix}$$



3. $\csc \frac{10\pi}{3}$ ref $< 60^\circ$

$$\csc \theta = \frac{1}{\sin} = \frac{H}{O} = \frac{2}{-\sqrt{3}}$$



$$\begin{matrix} 30 & | & 60 & | & 90 \\ 1 & | & \sqrt{3} & | & 2 \end{matrix}$$

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EQ: How do I simplify expressions using exact values?

$$4. \frac{\cos \frac{\pi}{6}}{\sin \frac{11\pi}{6}} = \frac{\frac{\sqrt{3}}{2}}{-\frac{1}{2}} = \frac{\frac{\sqrt{3}}{2}}{-\frac{1}{2}} \div -\frac{1}{2}$$

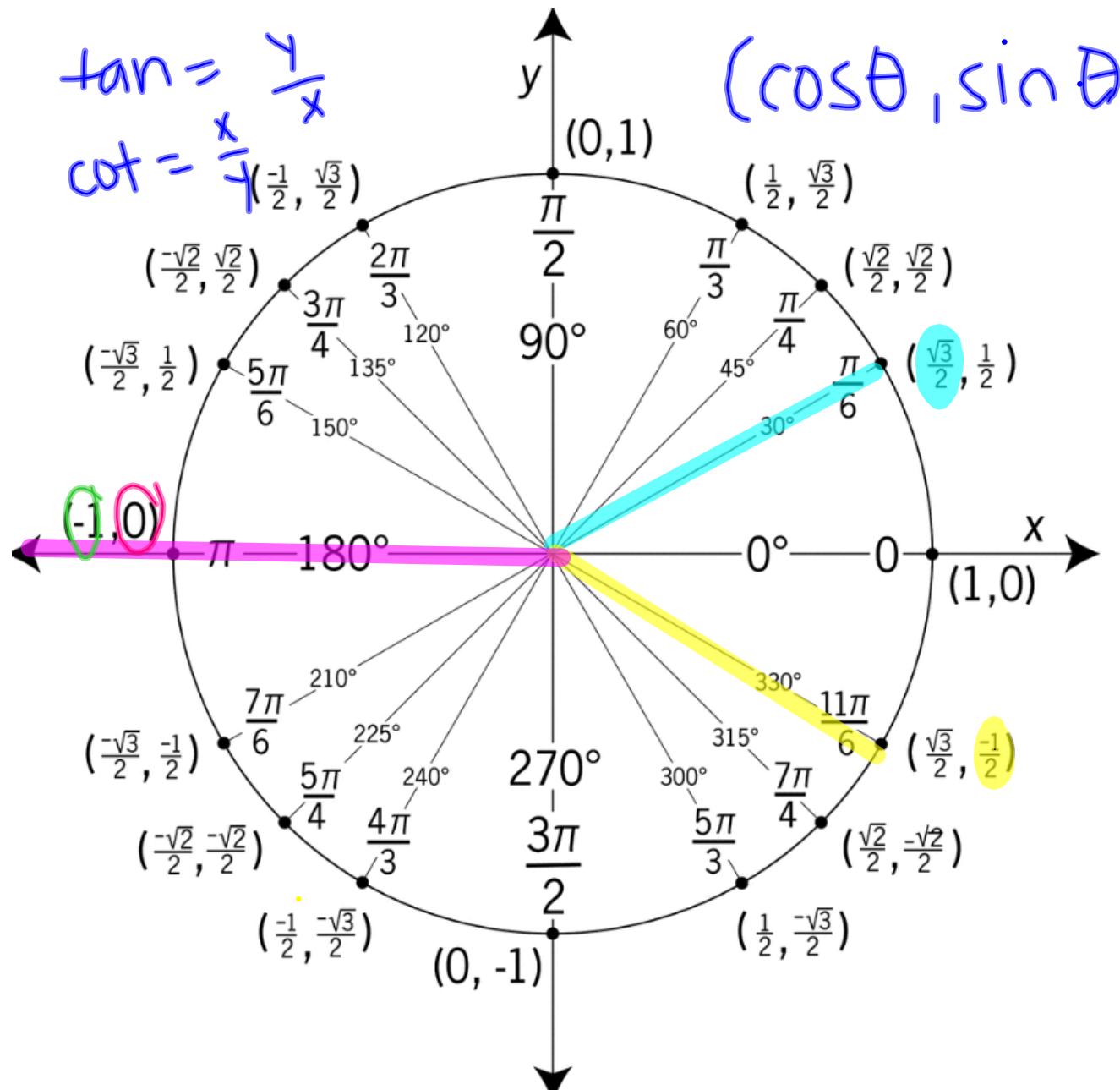
$$\frac{\cancel{\sqrt{3}}}{\cancel{2}} \cdot \frac{\cancel{2}}{-1} \div -\frac{\cancel{1}}{\cancel{2}} = \boxed{-\sqrt{3}}$$

$$5. \sin^2 \pi + \cos^2 \pi \neq \sin \pi^2 + \cos \pi^2$$

$$\sin \pi \cdot \sin \pi + \cos \pi \cdot \cos \pi$$

$$(0)^2 + (-1)^2$$

$$0 + 1 = \boxed{1}$$



More Exact Values

Name: _____

Find the exact value of each expression.

1. $\tan(-225^\circ)$

2. $\cos\left(-\frac{3\pi}{4}\right)$

3. $\csc\left(-\frac{17\pi}{6}\right)$

4. $\sin\left(-\frac{11\pi}{3}\right)$

5. $\cos 90^\circ + 5 \sin 270^\circ$

6. $2 \sin \frac{3\pi}{2} - 3 \cos \pi$

7. $2 \tan 45^\circ - \frac{3}{2} \tan(-225^\circ)$

8. $\sin \frac{2\pi}{3} - \cos \frac{4\pi}{3}$

9. $5\sin\frac{11\pi}{6} - 2\cos\left(-\frac{\pi}{6}\right)$

10. $\cot^2 330^\circ - \csc^2 330^\circ$

11. $-5\cot^2 150^\circ - 2\sin^2 120^\circ$

12. $\sin\frac{2\pi}{3}\cos\frac{\pi}{6} + \cos\frac{2\pi}{3}\sin\frac{\pi}{6}$

13. $\frac{\sec 120^\circ}{\cos 120^\circ}$

14. $\frac{\cos\frac{5\pi}{3}}{\sin\frac{4\pi}{3}}$

15. $\sin^2\frac{7\pi}{6} + \cos^2\frac{\pi}{4}$

16. $\tan^2\frac{2\pi}{3}\left(1 - \tan^2\frac{7\pi}{6}\right)$

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EQ: How do I simplify expressions using exact values?

**Closing is a form on
google classroom!!!**

