WU Closest x axis Draw∠ 1ST

FIND THE REFERENCE ANGLE FOR THE FOLLOWING:

1. 335° θ'=25°
2. 107° θ'=73°
3. -62° θ'=62°
4. 11π/6 θ'=π/6
5. 4π/3 θ'=π/3
6. 5π/9 θ'=4π/9

6. θ= 5π/3 7. θ= -130

Apr 5-8:13 PM

Tanθ ... 2/23

Define trig functions many ways...

$\sin\theta = \frac{opp}{hyp}, \frac{y}{r}, \frac{y}{1}, \frac{1}{\csc\theta}$ $\csc\theta = \frac{hyp}{opp}, \frac{r}{y}, \frac{1}{y}, \frac{1}{\sin\theta}$

$\cos\theta = \frac{adj}{hyp}, \frac{x}{r}, \frac{x}{1} = \frac{1}{\sec\theta}$ $\sec\theta = \frac{hyp}{adj}, \frac{r}{x}, \frac{1}{x}, \frac{1}{\cos\theta}$

$\tan\theta = \frac{opp}{adj}, \frac{y}{x}, \frac{y}{x}, \frac{1}{\cot\theta}$, $\cot\theta = \frac{adj}{opp}, \frac{x}{y}, \frac{1}{\tan\theta}$

$\frac{\sin\theta}{\cos\theta}$ $\frac{\cos\theta}{\sin\theta}$

Feb 18-6:56 PM

1. Define Tangent in at least 3 ways
2. Define Sine in at least 2 ways
3. Define Cosine in at least 2 ways
4. Define Cotangent in at least 4 ways
5. Why does one radian measure 57°

$\frac{180°}{3.14\pi}$ $\frac{180}{3.14} = 57°$

Apr 19-12:38 PM

HW

(24) $\sec 135° = \frac{-\sqrt{2}}{1}$

(25) $\tan 240° = \frac{+\sqrt{3}}{1}$

(26) $\sin(-150°) = -\frac{1}{2}$

(27) $\csc(-420°) = \frac{-2\sqrt{3}}{3}$ $\frac{-2}{\sqrt{3}}$

(28) $\cos\frac{7\pi}{4} = \frac{+\sqrt{2}}{2}$

(29) $\cot\left(\frac{-8\pi}{3}\right) = \frac{+\sqrt{3}}{3}$ $\frac{1}{\sqrt{3}}$

Feb 23-11:48 AM

EVALUATE THE FOLLOWING...

1. Sin 240 θ'=60° $\sin 60 = \frac{\sqrt{3}}{2}$ pos/neg $\sin 240° = -\frac{\sqrt{3}}{2}$
2. Cos 135 θ'=45° $\cos 45 = \frac{\sqrt{2}}{2}$ pos/neg $\cos 135 = -\frac{\sqrt{2}}{2}$
3. Tan 315 θ'=45 $\tan 45 = 1$ pos/neg $\tan 315 = -1$
4. Sin 7π/6 θ'=π/6 think 30° $\sin\frac{\pi}{6} = \frac{1}{2}$ pos/neg $\sin\frac{7\pi}{6} = -\frac{1}{2}$
5. Cos 5π/3 θ'=π/3 think 60° $\cos\frac{\pi}{3} = \frac{1}{2}$ pos/neg $\cos\frac{5\pi}{3} = +\frac{1}{2}$
6. Tan 3π/4 θ'=π/4 $\tan\frac{\pi}{4} = 1$ pos/neg $\tan\frac{3\pi}{4} = -1$

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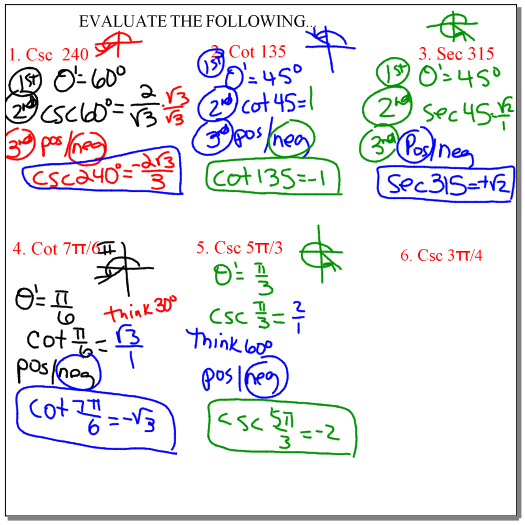
$\frac{\text{anything}}{0} = \text{undef.}$

$\frac{0}{\text{anything}} = 0$

Feb 23-2:05 PM



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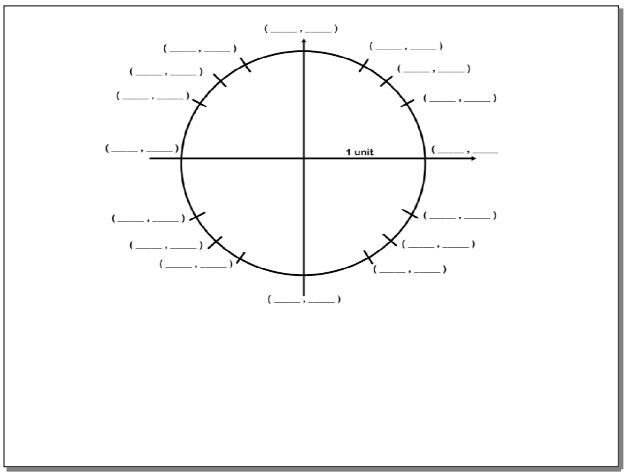

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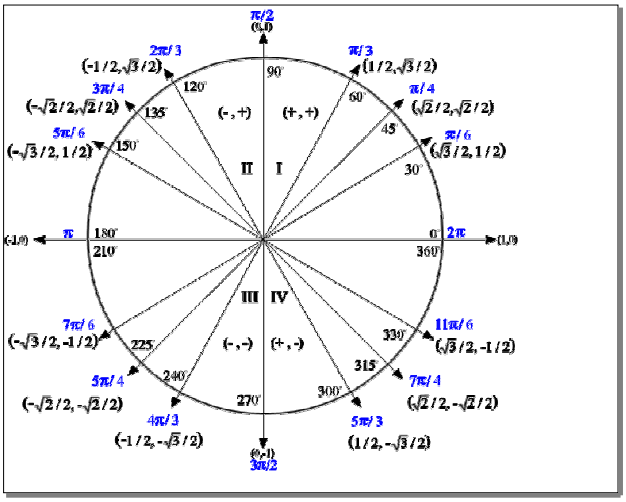

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Do you know your special right triangles

Can you solve triangles?

Can you list 6 trig ratios?

Can you draw angles in degrees and radians?

Can you convert between radians and degrees?

Can you find coterminal angles in degrees & radians

Can you find reference angles?

Can you evaluate angles?

Feb 18-7:03 PM