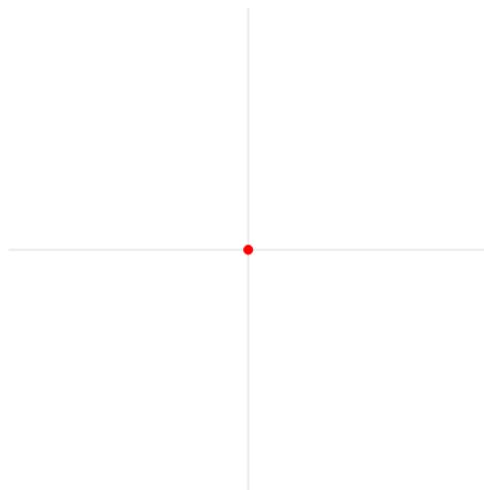


1.5 RADIANS

ESSENTIAL QUESTION:

How do I graph angles given in radians?



RADIANS

ESSENTIAL

QUESTION:

How do I graph angles given in radians?

coterminal angles... end @ same place

$\pm 360^\circ$ NOW $\pm 2\pi$

ex. $\frac{\pi}{6} + \frac{12}{6} \frac{2\pi}{6} = \frac{13\pi}{6}$ OR $\frac{\pi}{6} - \frac{12}{6} \frac{2\pi}{6} = \frac{-11\pi}{6}$

common denominator!



RADIANS

ESSENTIAL

QUESTION:

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Convert degrees to radians

$$\frac{360}{180} = \frac{2\pi}{\pi}$$

$$1^\circ = \frac{\pi}{180}$$

$$90^\circ \rightarrow 90 \cdot \frac{\pi}{180} = \frac{\pi}{2}$$

$$\boxed{\text{Degree} \times \frac{\pi}{180}}$$

Convert radians to degrees

$$\frac{\pi}{\pi} = \frac{180}{180}$$

$$1 \text{ radian} = \frac{180}{\pi}$$

$$\text{ex. } \frac{\pi}{6} \Rightarrow \frac{\pi}{6} \cdot \frac{180}{\pi} = 30^\circ$$

$$\boxed{\text{Radian} \times \frac{180}{\pi}}$$

$$\text{ex. } \frac{3\pi}{2} \cdot \frac{180}{\pi} = 270^\circ$$

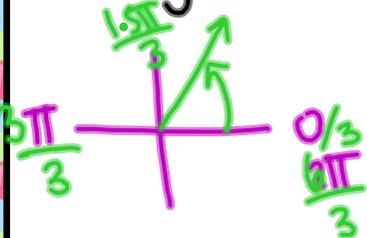
RADIANS

ESSENTIAL
QUESTION:

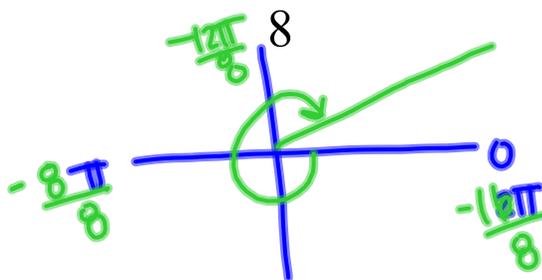
How do I graph angles given in radians?

Graphing angles in radians

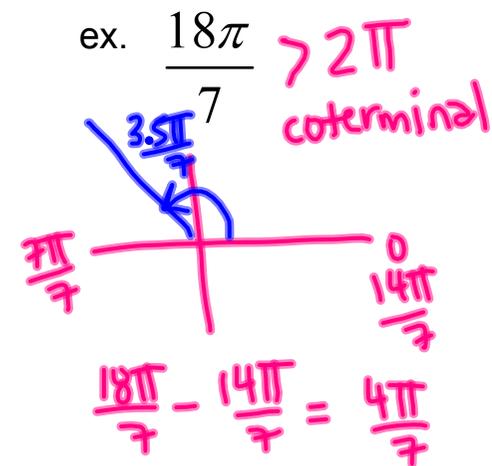
ex. $\frac{\pi}{3}$



ex. $-\frac{15\pi}{8}$



ex. $\frac{18\pi}{7}$



RADIANS

ESSENTIAL
QUESTION:

How do I graph angles given in radians?

