

Bellwork Alg 2 Wednesday, April 29, 2020

For each given angle θ find a coterminal angle measured in radians that is between 0 and 2π .

1. $\theta = \frac{31\pi}{7}$

2. $\theta = \frac{-58\pi}{15}$

$$1. \theta = \frac{31\pi}{7}$$

use find coterminal by subtracting 2π

$$2\pi = \frac{14\pi}{7}$$

$$\frac{31\pi}{7} - \frac{14\pi}{7} = \frac{17\pi}{7}$$

$\frac{17\pi}{7}$ is bigger than 2π so do this again

$$\boxed{\frac{31\pi}{7}} = \frac{17\pi}{7} - \frac{14\pi}{7}$$

$$2. \theta = -\frac{58\pi}{15}$$

find coterminal by adding 2π

$$2\pi = \frac{30\pi}{15}$$

$$-\frac{58\pi}{15} + \frac{30\pi}{15} = -\frac{28\pi}{15}$$

THIS IS STILL NEGATIVE SO DO IT AGAIN

$$\boxed{\frac{2\pi}{15}} = -\frac{28\pi}{15} + \frac{30\pi}{15}$$

For each given angle θ find a coterminal angle measured in radians that is between 0 and 2π .

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Answers