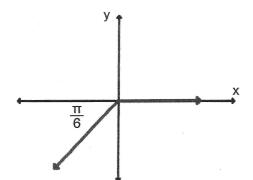
- 1. Convert each angle into degrees. Round to the nearest hundredth.
- a) $\theta = \frac{5\pi}{3}$

b) $\theta = \frac{7\pi}{15}$

- 2. Convert each angle into radians. Leave answer in terms of π and in simplified fractional form.
- a) $\theta = 240^{\circ}$

b) $\theta = 150^{\circ}$

3. State both a positive and a negative measure, in radians, for this angle in Standard Position:

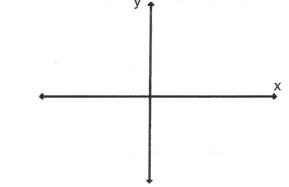


POS:

NEG:

4. State the Reference Angle, in radians, for this angle in Standard Position.





Practice #9

Alg 2

Radians

Thursday, March 26, 2020

ANGWERS

1. Convert each angle into degrees. Round to the nearest hundredth.

a)
$$\theta = \frac{5\pi}{3}$$
 • $\frac{180^{\circ}}{7}$

b)
$$\theta = \frac{7\pi}{15}$$
 • $\frac{180^{\circ}}{7}$

2. Convert each angle into radians. Leave answer in terms of π and in simplified fractional form.

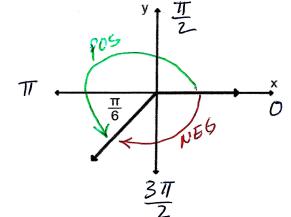
a)
$$\theta = 240^{\circ}$$

$$=\left(\frac{4\pi}{3}\right)$$

b)
$$\theta = 150^{\circ}$$
 . $\frac{\pi}{180^{\circ}}$

$$=\frac{5\pi}{6}$$

3. State both a positive and a negative measure, in radians, for this angle in Standard Position:



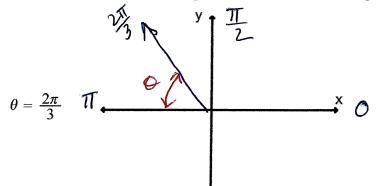
POS:

NEG:

$$= -\left(\frac{6\pi}{6} - \frac{\pi}{6}\right)$$

$$=$$
 $-\frac{5\pi}{6}$

4. State the Reference Angle, in radians, for this angle in Standard Position.



Ref
$$L \circ = \Pi - \frac{2\Pi}{3}$$

$$= 3\Pi - 2\Pi$$

$$= 3\Pi - 2\Pi$$

$$= 3 \Pi - 2\Pi$$