a) Find the value of the home in 2011 to the nearest penny (hundredth).

b) Find the number of years it will take for the home to reach \$100,000. Round to the nearest hundredth.

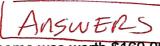
2. Convert each angle from degrees to radians or radians to degrees. Round degree answers to the nearest hundredth. Give radian answers in terms of π and as a fraction in simplified form.

a)
$$\theta = 225^{\circ}$$

b)
$$\theta = \frac{11\pi}{8}$$

Bellwork Ala 2

Friday, March 27, 2020



- 1. The value of a home has been decreasing 2.4% each year. In 2015 the home was worth \$160,000.
- a) Find the value of the home in 2011 to the nearest penny (hundredth).

EQ3
$$y = 160,000 (0.976)^{x}$$
 $x = \pm yrs since$ $100 - 2.4 = 97.6\%$ $y = 160000 (0.976)^{-4}$ for $2011 \ x = -4$ $b = 0.976$

b) Find the number of years it will take for the home to reach \$100,000. Round to the nearest hundredth.

$$\frac{10000}{160000} = \frac{160000}{160000}$$

$$0.625 = 0.976^{\times}$$

$$\log_{0.976}(0.625) = \times$$

$$\chi = 19.35 \text{ yrs}$$

2. Convert each angle from degrees to radians or radians to degrees. Round degree answers to the nearest hundredth. Give radian answers in terms of π and as a fraction in simplified form.

a)
$$\theta = 225^{\circ}$$

b)
$$\theta = \frac{11\pi}{8}$$