Shown Lewis Quiz 2

9/5/2016

$$\log(25x^{2}-25) - \log(x-1) = 2$$

$$\log(25x^{2}-25) = 2 \rightarrow 10^{2} = (25x^{2}-25)$$

$$(x-1)100 = (25x^2-25)(x-1)$$

$$0 = 25 \times 2 - 100 \times + 75$$

$$25 \left[\times 2 - 4 \times + 3 \right]$$

TESTX



1. (con+)

$$\log (25(1)^2 - 25) - \log (1-1) = 2$$
 $\log (25-25) - \log (1-1) = 2$
 $\log (25-25) - \log (1-1) = 2$
 $\log (0) - \log (0) = 2$
 $= 1$ is erroneous under

×=3

$$\log(2S(3)^{2}-2S) - \log(3-1) = 2$$

$$\log(2S(9)-2S) - \log(2) = 2$$

$$\log(22S-2S) - \log(2) = 2$$

$$\log(200) - \log(2) = 2$$

$$\log(200) = 2$$

$$x = 3$$
 is a valid answer for $\log(25x^2-25) - \log(x-1)=2$

$$h(+) = 397.68 \ln(+) - 2955.1$$
, where $t = 1990$
 $h(+) = home - ownership$

$$h(1990) = 397.68 \ln(1990) - 2955.1$$

$$(397.68) \cdot \ln(1990) - 2955.1$$

$$(397.68) (7.59589) - 2955.1$$

$$3020.73 - 2955.1$$

$$65.63 \cdot 6 \rightarrow 66.66$$

$$h(1990) = 66.666$$

The home-ownership rate in 1990 was 66.60%

3a.
$$Q = A(1 + E)^{n+}$$

Q-Amount of money at end of time period

A-Initial Amount of Money Invested 1-Interest Rate n-number of compounding periods (monthly) +-number of years invested

\$ 9103.75 will be available in account after 20 years communded monthly.

36. A = Per+

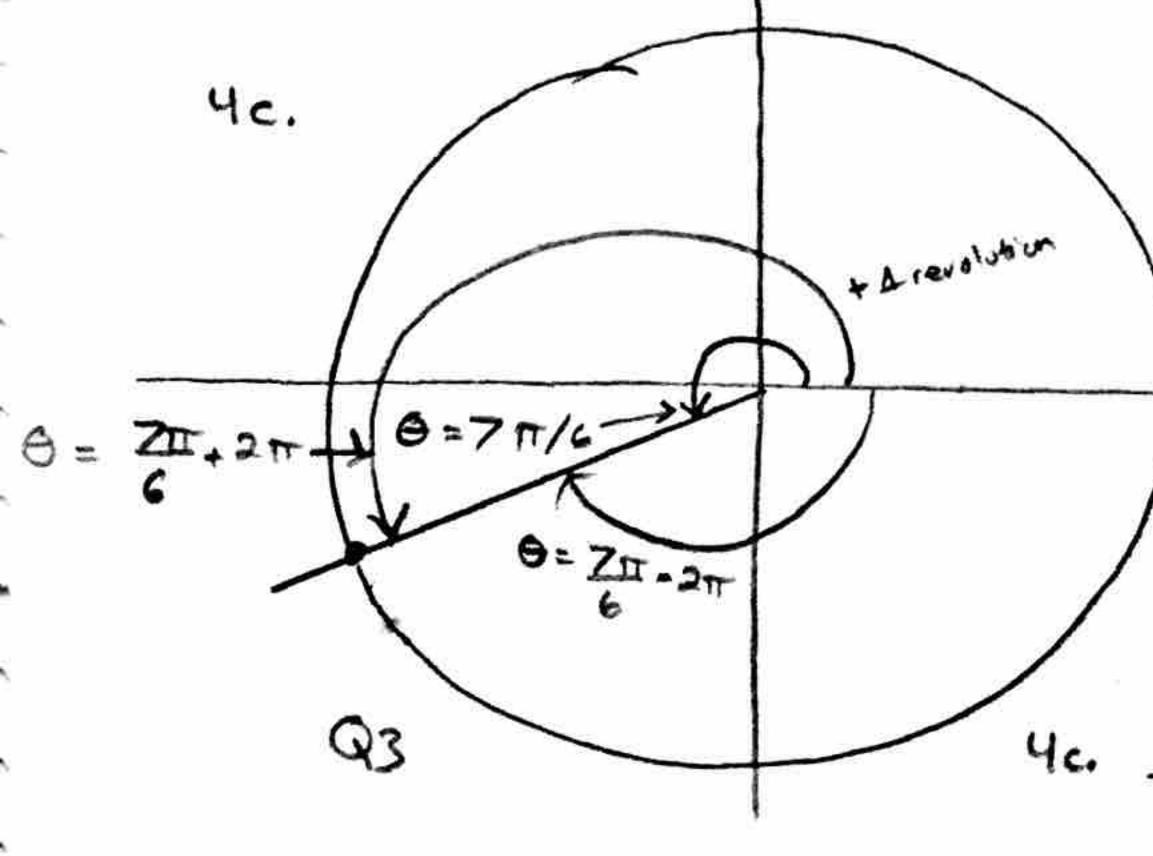
 $A = (5000)(2.71828)^{(03)(20)}$ $(5000)(2.71828)^{(6)}$ (5000)(1.82212) 49110.59

\$9110.59 will be available in account after 20 years compounded continuously.

1580 is located in quadrant 2

4b.
$$\Theta = (158^{\circ}) + (360^{\circ})(1)$$

 $-(158^{\circ}) + 360^{\circ}$
 $\Theta = 518^{\circ}$



4d.
$$\Theta = (\frac{2\pi}{6}) + (2\pi)(1)$$

$$\frac{2\pi}{6} + 2\pi$$

$$\Theta = \frac{19\pi}{6} \text{ or } 570^{\circ}$$

$$\Theta = \frac{(2\pi)}{6} - (2\pi)(1)$$

$$\frac{Z\Pi}{6} - 2\pi$$

$$\Theta = -S\pi/6 - 1500$$

Finh GCF For Sa.