The Q-B Solution

Paul T E Cusack*
1641 Sandy Point Rd, Saint John, NB, Canada E2K 5E8, Canada

*Corresponding author: Cusack PTE, Independent Researcher, BSc E, DULE, 1641 Sandy Point Rd, Saint John, NB, Canada E2K 5E8, Canada, Tel: (506) 214-3313; E-mail: St-michael@hotmail.com

Received date: January 17, 2017, Accepted date: February 20, 2017, Published date: February 27, 2017

Abstract

In this paper, we use Euler’s Formula and Astrotheology Physics to determine the mathematical mechanism that may be used by the Fed. Chairman to set interest rates and projected inflation. I call this “Cusack-Bernanke Solution” or the “Q-B Solution.”

Keywords

Introduction

I expected, the Fed Chair’s job is to maintain a straight line between a too hot economy and a too cold one [1,2]. How does he do that? He must keep the pressure on the economy just right. Here's how:

Euler's Formula:

\[ e^{i\pi} = -1 \]

So,

\[ \frac{1}{2} e^{(1-iS)} = \frac{1}{2} e^{(1+iS)} \]

We know i=0.618, and cuz=Pi-e=0.4233

So solving:

\[ t(1-0.618)S = (1+0.618)S(t+dt) \]

\[ t=1.618/0.38(t+dt) \]

\[ \int t\,dt = \int 4.23 \]

\[ t^2 = 4.23t \]

\[ t=4.23 \]

\[ t=67.35\% \sim 2/3 \]

For a full economic cycle =2\pi

\[ t(4.23(t+dt)) \]

\[ 2/3 = 4.23(2/3) + 4.23dt \]

\[ 3.23 = 6.28dt \]

\[ dt = 2\pi/3.23 \]

\[ dt = 6.28/3.28 \sim 2 \]

\[ t-dt = 2/3 + 2 \cdot 0.2666 = F \text{ Force} \]

\[ F = Ma = 0.2666 = M(0.8415) \]

\[ M = 0.318 \approx 1/\pi \]

Maximum Output = 0.8415 = 81.45 = \sin 45^\circ = \cos 45^\circ = a = v 

---

Work \( W = F \cdot d \)

Energy \( E = W = M \cdot S \) = Money Supply

Balance between too much pressure and too little,

\( \sin 45^\circ = \cos 45^\circ \)

\( E = 1/\sqrt{2} \)

We know from basic physics:

\( D = vt + 1/2 \cdot a \cdot t^2 \)

\( 0.265 = 0 + 1/2 (0.707)t^2 \)

\( T = 0.866 = \sin 60 \text{ degrees} \)

Work = stored money = \$M

\( M = 1/t \cdot 1/t \)

\( M/ \text{ frequency} = 1/t \)

\( = 1/t^2 \)
T=0.1/0.75=4/3=0.1334
M$=0.4244~(\pi-e)=$cuz
M$=0.4233% 
Now, if i=0.04244, And Inflation=2%,
Real rate i=0.04244-0.02=0.0224 Or 2.214%
Plugging this into the Golden Mean Parabola,
$$T^2-t-1=E$$
$$(2.24)^2-2.24-1=1.777=\sqrt{\pi}$$
Volume of a sphere=4/3 Pi R^3
Vol=E=0.4244
$$\frac{4}{3}\pi R^3=0.4244$$
R=2.14
=1-\pi
Area=\pi R^2
=\pi+2.14^2=14.38
1-R/100=58.8 degrees=\sim1 \text{ rad}
Coreference=2\pi R
=2\pi R (2.14)
=13.43
1=13.43/100=0.866=\sin 60 \text{ degrees}
=Supe force
Considering the GDP Equation:
GD=Y=G+I+C-S
Ln Pi= 17%+4.4244%+C-(1/7)%
1.1447=6.95%+C
C=1+(1/7)
=7.52%
So, again,
Y=G=I+C=S
Y-C-I=C-S
=1+(1/7)+1/7
I=1.686
But I=4.244%
So, $.244%-1.686%=2.55 %
=Inflation
The Optimum Period T=1/t=0.251
LE=1/t=T
Ln T=Ln 0.251)=1386
1-0.1386=0.863-0.866=\sin 60 \text{ degrees}
=Superforce=M$
This is the pressure that the Fed Chair must keep on the economy.
So, ideally, the Money Supply should follow the sine curve over the economic cycle [3]. The influence of the combined affect of government spending, G and controlling the money supply, M$, should sum to a sine wave always.
We'll call it the Q/B=Quarter Back Solution (Figure 1).

Conclusion
So, the job of maintaining a constant, maximum growth of the national economy should follow the sine wave.

References