The Domar Model:

A Russian American economist, Evsey David Domar (April 16, 1914 - April 1, 1997), builds his model from both demand as well as the supply side based on dual effect of investment and provided the solution for steady growth.

To simplify the model, the demand and the supply equation in the incremental form can be written as follows:

The demand side of the long-term effect of investment can be summarized and expressed through the following relation as:

[Change in income (ΔY_d) equals multiplier ($1/\alpha$) times the Change in investment (ΔI)] α (Alpha) = Marginal propensity to save which is reciprocal of multiplier.

The supply size of investment can be summarized and expressed through the following relation

 $\Delta Y_s = \sigma \Delta K \ \left[\text{Change in output supply } (\Delta Y_s) \text{ equals the product of Change in real capital } (\Delta K) \text{ and capital Productivity } (\sigma) \right]$

equilibrium!

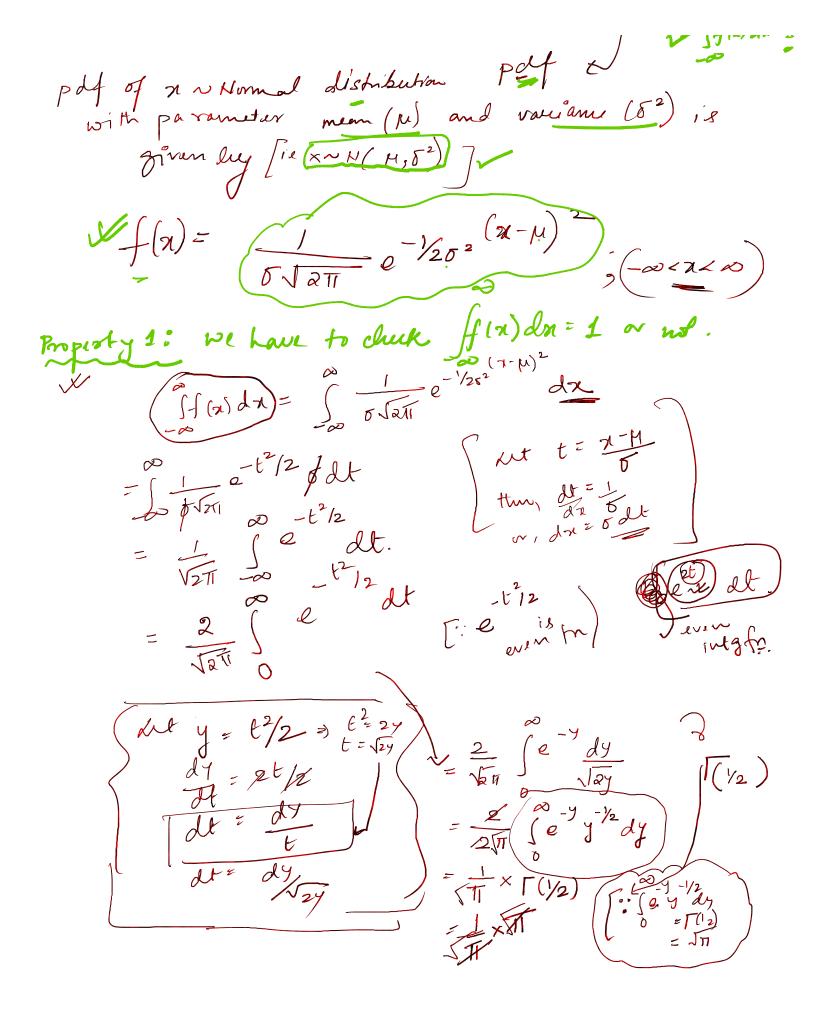
Domar's condition of steady state growth can be explained with the help of numerical example. Suppose the productivity of capital (σ) is 25% and the marginal propensity to save ((α) is 12%, then;

mps= x=12% = 12/100

Thus, the above numerical example shows that income and investment must grow at an annual rate of 3% if steady growth rate is to be maintained at full-employment. Any divergence from this 'golden path' will lead to cyclical fluctuations. Disequilibrium reflecting non-steady growth state would prevail if:

1) $\frac{\Delta I}{I} > \underline{\alpha} \sigma$ and the economy would experience inflation. 2) $\frac{\Delta I}{\Delta I} < \alpha \sigma$ and the economy would suffer from secular stagnation.

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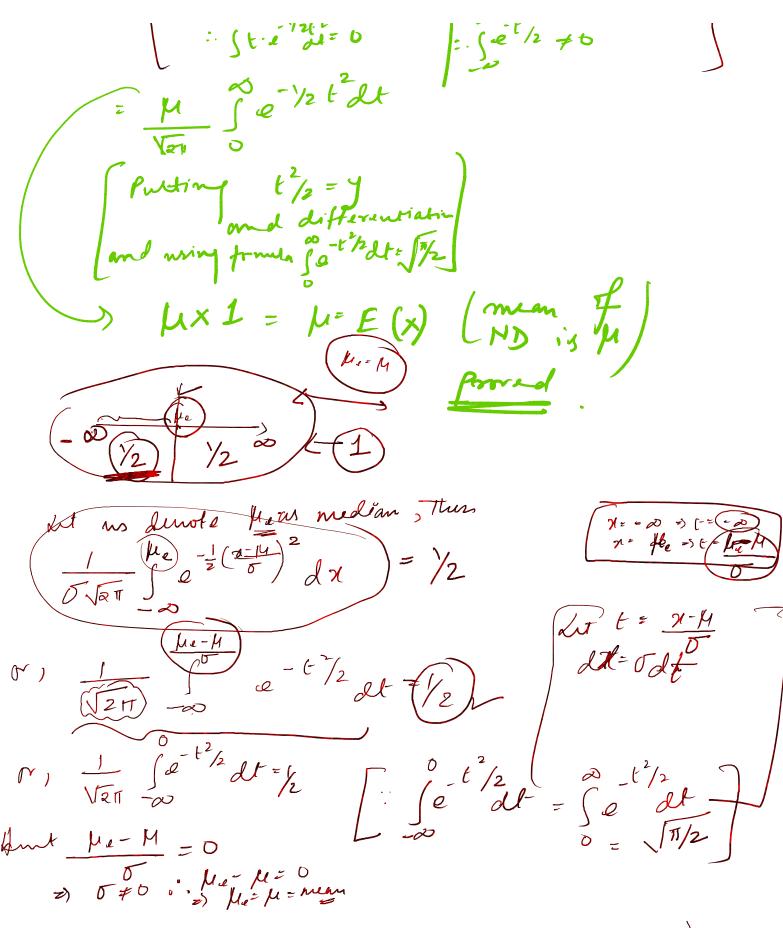
Property 2: Mean of Normal distribution is $E(x) = \mu$.

$$E(x) = \int_{0}^{\infty} x f(x) dx$$

$$= \int_{0}^{\infty} x \cdot \frac{1}{\sqrt{2\pi} 6} dx$$

$$= \int_{0}^{\infty} \frac{1}{\sqrt{2\pi} 6} dx$$

$$= \int_{0}$$



for a normal distribution mean= median= le (ans)

My is symmetrical, its odd order central $\mu_{2n+1} = E(x - \mu)^{2n+1}$ = \((x-4)^2n+1 \int(x) dx $=\int_{-\infty}^{\infty} (x-\mu)^{2\eta+1} \frac{1}{\sqrt{z\pi}} e^{-\frac{1}{2}(\frac{\chi-M}{\delta})^{2\eta}} d\eta$ $= \int_{-\infty}^{\infty} (t)^{291+1} \int_{-\infty}^{291+1} dt \int_{-\infty}^{\infty} dt \int_{-\infty}^{\infty} \left(\frac{q-M}{D}\right)^{291+1}$ $= \int_{2\pi}^{2\pi} \int_{-\infty}^{2\pi} \int_{0}^{2\pi} \int_{0}$ old order central moment in HD is alway O. (M3)=0 3 skennes=0 3 distribution il (bell shaped curry curry ND has 2 pt of influxion. $\frac{d^2f(x)}{dx^2} = 0$

$$f(x) = \frac{1}{\sqrt{2\pi}} e^{\frac{1}{2}(x-M)^2}$$

$$f'(x) = ?$$

$$f''(x) = ?$$

$$e^{\frac{1}{2}(x-M)^2}$$

$$f''(x) = ?$$

$$f''(x$$