

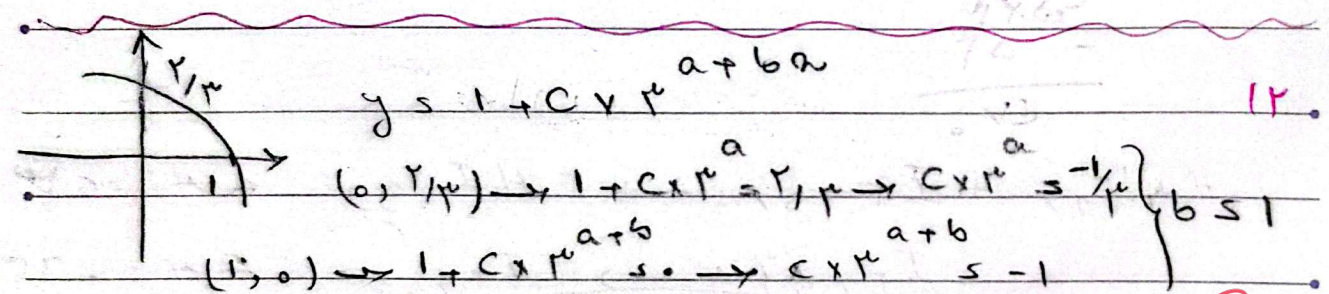
$y s 1 - dy (a s - b) / c$, $b + c s^{-1/r}$. *A positive value of ω will give a line.*
c $\gamma \cdot \star$ \star

$(a, r) \rightarrow 1 - dy^{-b} s r \rightarrow dy^{-b} s - 1 \rightarrow -\frac{1}{c} s b$
5 $c s^{-r} \star$

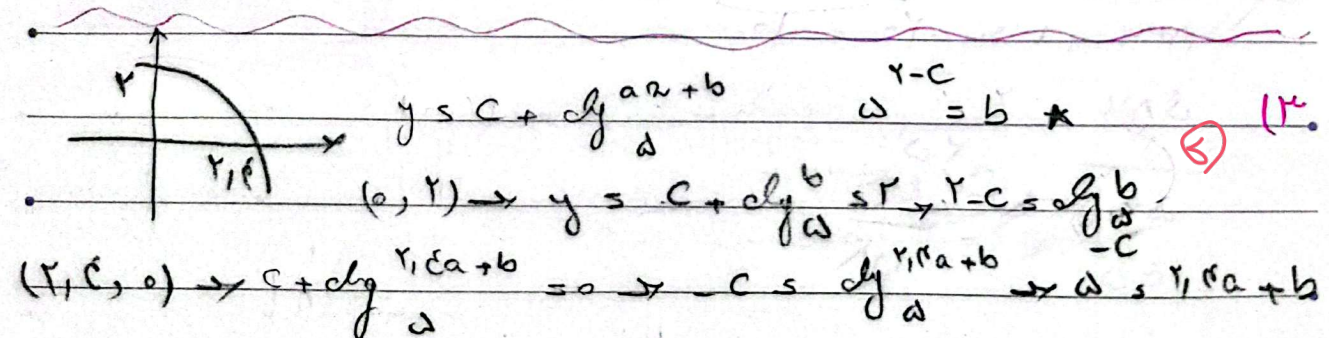
$\star \rightarrow \frac{1}{c} + c s^{-r/r} \rightarrow \frac{c^r - 1}{c} s^{-r/r} \rightarrow r c^r + r c - r s$
4 $c s 1/r$

$y s 1 + dy \frac{a s + r (-1, \omega, 0)}{r} \rightarrow 1 + dy^{-r/r} a + r s \rightarrow a s$
= $r b s - r$

$\rightarrow (a + c) b s (1 + 1/r) x - r s^{r/r} x - r s - r$



$f(-1) s 1 + c x r^{a-1} s 1 + \frac{c x r^a}{r} s 1 + \frac{-1/r}{r} s 1 - 1/r s$
^ $1/9$



$d^{-c} - d^{-c} s r/r a \rightarrow d^{-c} (1 - r/r) s^{1/r} a \rightarrow a s - 1 \times d^{-c}$
*

$\star \frac{a}{b} s \frac{-1 \times d^{-c}}{r a \times d^{-c}} s \frac{-r}{d}$

$z=1 \rightarrow -1 + \frac{1}{r} + \lambda = r + r^{b-a} \rightarrow b-a=1$ (13)

$r^{-1}(1.0) s=1 \rightarrow X + r^{a+b} = \frac{1}{r} \rightarrow b+a=r$

$$\left. \begin{array}{l} rb=r \rightarrow b=r \\ a=1 \end{array} \right\} \rightarrow rb-a = r-1 = r$$
(5)

$f(x) = -r + \frac{1}{r} = -r + r^{-1}$ (14)

$z=1 \rightarrow 1 \cdot \frac{1}{r} s = -r + r^{-1} \rightarrow -A-B=1$

$z=r \rightarrow r \cdot \frac{1}{r} s = -r + r^{-1} \rightarrow -rA-B=r$ (5)

$A=1, B=0$

$\rightarrow f(x) = -r + r^2 \rightarrow f(r) = -r + r^2 = 4$

$m(t) = \frac{1}{4} \rightarrow \frac{d}{dt} \left(\frac{1}{4} \right) = \frac{1}{4} \rightarrow -\frac{dy}{y} = \frac{1}{4} dt = t/4$ (15)

$s = \frac{dy}{y} = t/4 \rightarrow \int \frac{dy}{y} = \int \frac{t}{4} dt = \frac{1}{4} \left(\frac{t^2}{2} \right) = \frac{t^2}{8}$

$t \in \mathbb{R}^+$

$\frac{1}{4} \rightarrow \frac{d}{dt} \left(\frac{1}{4} \right) = \frac{1}{4} \rightarrow -\frac{dy}{y} = \frac{1}{4} dt = t/4 \rightarrow \frac{dy}{y} = -t/4$ (16)

$\frac{dy}{y} = -\frac{t}{4} \rightarrow \int \frac{dy}{y} = \int -\frac{t}{4} dt = -\frac{t^2}{8} \rightarrow t \in \mathbb{R}^+$ (5)





Year:

Month:

Day:

| |

Subject:



۱۹. مقدار کاهش درصدی ...

$$100 \times \left(\frac{94}{100}\right)^t = 100 \times \left(\frac{75}{100}\right)^t$$

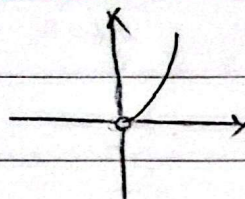
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۱/۳۰ × ۱۰۰ = ...

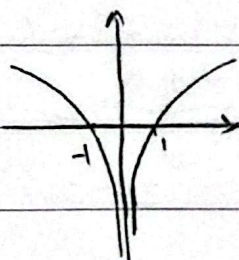
$$\frac{1}{30} \times \left(\frac{94}{100}\right)^t = \frac{1}{30} \times 100 \rightarrow \log_{94/100} 30 = t = \frac{\log 30}{\log 94/100}$$

$$\log 30 = \frac{0.4771}{-0.0215} = -22.2$$

$$9 \log 2^x = 2 \log 2^x = 2^x$$



$$\log 2^x = 2 \log 2$$



$$\log(2^x - 2) = 2^x - 2$$

$$2^x - 2 < 2^x \rightarrow 2^x - 2 - 2^x < 0$$

$$2^x - 2 < 0 \rightarrow \sqrt{2^x - 2} < \sqrt{2^x - 2}$$

$$D_f = (-\infty, 1) \cup (1, \infty)$$

