BAC VARA 2025 TEHHOLOGIC

Subjectul I.

4.
$$\frac{1}{10} + 3 \cdot \left(\frac{3}{2} - \frac{1}{10}\right) = 1$$
 $\frac{1}{10} + 3 \cdot \left(\frac{5}{10} - \frac{2}{10}\right) = 1$
 $\frac{1}{10} + 3 \cdot \frac{3}{10} = 1$
 $\frac{1}{10} + \frac{3}{10} = 1$
 $\frac{1}{10} = 1$

$$0 = 19$$

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$$0 = 19$$

$$X = Y$$

 $\partial X = Q : Q$
 $\partial X + X = Q$
 $\partial X = Q - X$
 $\partial Y = Q - X$
 $\partial Y = Q - X$



$$P = \frac{\cos 2 \cos \theta}{\cos 2 \cos \theta} = \frac{10}{5} = \frac{5}{10}$$

Subjectul I.

$$A = \begin{pmatrix} 5 & 2 \\ 2 & 1 \end{pmatrix}, B = \begin{pmatrix} 5 & 3 \\ 3 & -1 \end{pmatrix}, T_{2} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

=) x E [-5, 1]

$$\sigma$$
) $m=r$, $f(r)=0$

$$\delta(\gamma) = \gamma_2 - 2 \cdot \gamma_2 + \gamma + \gamma = \gamma - 2 + \beta = 3 - 2 = 0$$

b)
$$51 = x1 + x5 + x9 = -\frac{0}{p} = -\frac{1}{-2} = 3$$

$$2^{2} = xxxx^{2} = -\frac{\sigma}{q} = -\frac{1}{w} = -w$$

$$317 + 515 + 512 = 7 + 171512$$

$$m = 1 - C$$

$$m = -5$$

$$g(s) = 5 - 3 \cdot 9 + 9 + 44 = 8 - 15 + 5 + 44 = -5 + 44$$

b)
$$3A - 5I_{33} = +B$$
, $x = ?$

$$3 \cdot \begin{pmatrix} 5 & 2 \\ 2 & 1 \end{pmatrix} - 5 \cdot \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = + \cdot \begin{pmatrix} 5 & 3 \\ 3 & -1 \end{pmatrix}$$

$$\begin{pmatrix} 15 & 6 \\ 6 & 3 \end{pmatrix} - \begin{pmatrix} 5 & 0 \\ 5 & 3 \end{pmatrix} = \begin{pmatrix} 5 & 3 & -1 \\ 3 & -1 \end{pmatrix}$$

$$\begin{pmatrix} 10 & 6 \\ 5 & 3 \end{pmatrix} - \begin{pmatrix} 5 & 3 & 3 & 3 \\ 3 & -1 & 3 & 3 \end{pmatrix}$$

$$=) 5x = 10 \quad 1 \cdot 5$$

$$x = 3$$

c)
$$\det (A \cdot (B - A) + \chi I_{2}) \leq 2$$

 $B - A = \begin{pmatrix} 5 & 3 \\ 3 & -h \end{pmatrix} - \begin{pmatrix} 5 & 2 \\ 2 & \lambda \end{pmatrix} = \begin{pmatrix} 0 & 1 \\ 4 & -2 \end{pmatrix}$

$$A \cdot (B - A) = \begin{pmatrix} 5 & 2 \\ 2 & \lambda \end{pmatrix} \cdot \begin{pmatrix} 1 & -2 \\ 2 & \lambda \end{pmatrix} = \begin{pmatrix} 2 & 5 - 4 \\ 2 & 1 \end{pmatrix} = \begin{pmatrix} 2 & 1 \\ 2 & 2 \end{pmatrix}$$

$$\begin{pmatrix} 3 \cdot 0 + \gamma \cdot \gamma & 3 \cdot \gamma + \gamma \cdot (-3) \\ 2 \cdot 0 + 3 \cdot \gamma & 2 \cdot \gamma + 3 \cdot (-3) \end{pmatrix} = \begin{pmatrix} \gamma & 3 - 5 \\ 5 & 2 - \gamma \end{pmatrix} = \begin{pmatrix} \gamma & 0 \\ 5 & \gamma \end{pmatrix}$$

$$A \cdot (P - H) + \chi_{I} = \begin{pmatrix} \gamma & 0 \\ \gamma & \gamma \end{pmatrix} + \begin{pmatrix} 0 & \chi \\ \chi & 0 \end{pmatrix} = \begin{pmatrix} \gamma & \chi \\ \gamma & \gamma \end{pmatrix} = \begin{pmatrix} \gamma & \chi \\ \gamma & \gamma \end{pmatrix}$$

$$+ \cdot \chi_{I} = \chi \cdot \begin{pmatrix} 0 & \chi \\ \gamma & 0 \end{pmatrix} = \begin{pmatrix} 0 & \chi \\ \gamma & 0 \end{pmatrix} = \begin{pmatrix} \gamma &$$

$$qef = \begin{vmatrix} \gamma & \chi \\ 3+\chi & \gamma \end{vmatrix} = (3+\chi)\cdot\chi - \gamma \cdot \gamma = 3\chi + \chi - \gamma = \chi + 3\chi - \gamma$$

$$x^{13} = \frac{50}{-070} = \frac{5}{-570} = \frac{5}{-570}$$

$$=) x^{7} = \frac{0}{-5 - 1} = \frac{5}{-6} = -3 \qquad x^{5} = \frac{5}{-5 + 1} = \frac{5}{5} = 7$$

. II Sutssidue

$$\beta_{1}(x) = \left(\frac{6x}{x-5}\right)_{1} = \frac{(6x)_{5}}{(x-5)_{1}(6x)_{1}} =$$

$$=\frac{6x}{6x-(x-5)\cdot 6x}=\frac{6x}{8x(1-x+5)}=\frac{6x}{2-x}$$

$$\delta(0) = \frac{60}{0-5} = \frac{1}{-5} = -5$$
 $\delta_1(0) = \frac{60}{3-0} = \frac{1}{2} = 2$

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8,(x)	+	+	P	*	+	0		7.77	-	_	2T-2	
8(4)												

pt
$$x \in [1,3]$$
, $g(x) = 0 = 0$ (1) $g(x) = g(x)$ (1)

pt $x \in [5, 4]$, $g'(x) \neq 0 =)$ $g \in See descreta descreta de per [5, 4] =) <math>g(x) \in g(g)$ (2) din $1 \approx 2 =) g(x) \in g(x) \in g(g)$

$$\delta(\tau) = \frac{6\tau}{1-5} = -\frac{6}{7}$$
 $\delta(2) = \frac{62}{2-5} = \frac{62}{7}$

$$-6x-7 \in x-3 \in 6x-3$$

$$\int_{0}^{1} dx \, dx = \pi \int_{0}^{1} x \, dx = \pi \cdot \frac{\pi}{2} \int_{0}^{1} = \pi \cdot (I_{5} - O_{5}) = \pi \cdot \gamma = \pi$$

$$6) \begin{cases} \frac{8}{(x)-4x} & 0 \\ \frac{8}{x} & 0 \\ \frac{8}$$

$$qx = 3x qx = 3qx = \frac{3x}{qx}$$

$$x = x_5 + 8$$

$$= \int_{0}^{8} \frac{1}{x} \cdot \frac{3x}{x} = \int_{0}^{4} \frac{1}{x} \cdot \frac{3x}{x} = \int_{0}^{8} \frac{1}{x} \cdot \frac{3x}{x} = \int_{0}^{4} \frac{1}{x} \cdot \frac{3x}{x$$

$$= 7 \cdot m(5+8) |_{8} = 7 \cdot (m(8+8) - m(0+8)) =$$

$$= 1.(m + 2 - m 8) = 1.m + 2 = 1.m = 1.8 m =$$

c)
$$\int_{0}^{\infty} \frac{\partial(x) - A}{\partial x} dx = \frac{A}{A}$$

$$\int_{0}^{\infty} \frac{x^{2} + nx + 8 - n}{1} \, dx = \int_{0}^{\infty} \frac{x^{2} + nx + n}{1} \, dx = \int_{0}^{\infty} \frac{(x + 5)^{2}}{1} \, dx$$

$$dt = dx$$

$$= \int_{0}^{0} \frac{d^{2}}{dt} dt = \int_{0}^{0} \frac{d^{2}}{dt} dt = \frac{-3+1}{2} \Big|_{0}^{0} = \frac{-1}{2} \Big|_{0}^{0} = \frac{-1$$

$$=-\frac{1}{4}\Big|_{0}^{\alpha}=\frac{1}{4}$$

$$= -\frac{x+y}{1} \Big|_{0} = -\left(\frac{0+y}{1} - \frac{0+y}{1}\right) = -\frac{0+y}{1} + \frac{y}{1}$$

$$= -\frac{x+y}{1} \Big|_{0} = -\left(\frac{0+y}{1} - \frac{0+y}{1}\right) = -\frac{0+y}{1} + \frac{y}{1}$$

$$= \int_{-\sqrt{V}} -\frac{0+3}{\sqrt{V}} + \frac{3}{\sqrt{V}} = \frac{1}{\sqrt{V}}$$

$$-\frac{\sigma^2}{\sqrt{\sigma}} = \frac{1}{1} \frac{\sigma}{\sigma^2}$$

$$-\frac{0+5}{1} = \frac{7}{1} - \frac{1}{5}$$

$$-\frac{0+5}{V} = -\frac{A}{V} \left[\cdot (-I) \right]$$

$$\frac{\alpha+\beta}{7} = \frac{\beta}{7} = 3 \quad \alpha+\beta=\beta$$

$$\alpha = \pi - \sigma$$

$$\sigma = \sigma$$