

0-7+0

0-7+0

$$\begin{array}{cc|cc} 1 & 0 & 0 & 1 \\ 0 & 1 & 1 & 0 \\ 0 & 1 & 1 & 0 \end{array}$$

DFTS 047-(-1)

$$Q = 7 + 7 = 2$$

$$1 + a + 0 = 0 + 1$$

$$\text{DET } A = 2$$

~~7003~~

$$\sigma \quad 1 \quad -1 \quad 4 \quad 7 \quad -1$$

0	0	0	3	0	0
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$$DET = -3 - (+3)$$

~~0 1 1 4 1 1~~

$$\text{DET} = -6$$

$$0 + 3 + 0 = -3$$

$$6 + 3 + 0 = 9$$

x^2	1	x	$\frac{1}{x}$
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75	0	5	2
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10	0	4	2
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7 7 7 7

$$-5 + 8x^2 + 15x$$

2 1 2 2

① A

$$\begin{vmatrix} 1 & 0 & 0 & 1 & a \\ 0 & 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & 0 & -1 \end{vmatrix}$$

$$\text{DET} = a + 1 - (-1)$$

$$a = 1 + 1 = 2$$

$$1 + a + 0 = a + 1$$

$$\text{DETA} = 2$$

③

$$\begin{vmatrix} 1 & 0 & 0 & 3 \\ 0 & 1 & -1 & 4 \\ 0 & 0 & 0 & 3 \\ 0 & 1 & -1 & 4 \end{vmatrix}$$

$$\text{DET} = -3 - (+3)$$

$$\text{DET} = -6$$

$$0 + 3 + 0 = -3$$

$$0 + 3 + 0 = 3$$

②

$$\begin{vmatrix} x^2 & 0 & x & -\frac{1}{10} \\ 7.5 & 0 & 5 & 2 \\ 10 & 0 & 4 & 2 \\ 1 & 1 & 1 & 1 \end{vmatrix}$$

$$\downarrow -5 + 8x^2 + 15x$$

$$\begin{vmatrix} x^2 & x & -\frac{1}{10} & x^2 & x \\ 7.5 & 5 & 2 & 7.5 & 5 \\ 10 & 4 & 2 & 10 & 4 \end{vmatrix}$$

$$10x^2 + 20x - 3 - (-5 + 8x^2 + 15x)$$

$$10x^2 + 20x - 3 + 5 - 8x^2 - 15x$$

$$10x^2 + 20x + 3$$

$$2x^2 + 15x + 2$$

$$\Delta = 5^2 - 4 \cdot 2 \cdot 2$$

$$\Delta = 25 - 16$$

$$\Delta = 9$$

$$x = \frac{-5 \pm \sqrt{9}}{2 \cdot 2}$$

$$x^2 = \frac{-5 - 3}{4} = \frac{-8}{4} = -2$$

$$x^2 = \frac{-5 + 3}{4} = \frac{-2}{4} = -\frac{1}{2}$$

③

$$\begin{vmatrix} x & 0 & 0 & 3 \\ -1 & x & 0 & 0 \\ 0 & -1 & x & 1 \\ 0 & 0 & -1 & 2 \end{vmatrix}$$

DET = $-2x^3 + x^2 + 3$
ALTERNATIVA A

$$\begin{vmatrix} -1 & x & 0 & -1 \\ 0 & -1 & x & 0 \\ 0 & 0 & -1 & 0 \end{vmatrix}$$

$$\begin{vmatrix} x & 0 & 0 & 3 \\ -1 & x & 0 & 0 \\ 0 & -1 & x & 1 \\ 0 & 0 & -1 & 2 \end{vmatrix}$$

DET = $x^2 \cdot 7 = -x^2$

DET = $-1 \cdot 3 = -3$ IMPAR = 3

TROCA DESINAL

IMPAR
TROCA DESINAL

DET = x^2

$$\begin{vmatrix} x & 0 & 0 & x \\ -1 & x & 0 & -1 \\ 0 & -1 & x & 0 \end{vmatrix}$$

DET = $x^1 \cdot (-2) = -2x$

④

$$A = \begin{bmatrix} x & 0 & 0 & 0 & 0 \\ 0 & x & 1 & 0 & 0 \\ 0 & 0 & x & 1 & 0 \\ 0 & 0 & 0 & x & K \\ 0 & 0 & 0 & 1 & x \end{bmatrix} \quad \begin{matrix} \times \\ \vee \\ \times \\ \vee \\ \vee \end{matrix} \quad \begin{bmatrix} x & 1 & 0 & 0 & 0 \\ 0 & x & 1 & 0 & 0 \\ 0 & 0 & x & K & 0 \\ 0 & 0 & 1 & x & 0 \\ 0 & 0 & 0 & 1 & x \end{bmatrix} \quad \begin{matrix} \vee \\ \times \\ \vee \\ \vee \\ \vee \end{matrix} \quad \begin{bmatrix} x & 1 & 0 & 0 & 0 \\ 0 & x & 1 & 0 & 0 \\ 0 & 0 & x & K & 0 \\ 0 & 0 & 1 & x & 0 \\ 0 & 0 & 0 & 1 & x \end{bmatrix} \quad \begin{matrix} \vee \\ \times \\ \vee \\ \vee \\ \vee \end{matrix}$$

$$\text{DET} = x^3 - xK$$

$$\text{DET} = x \cdot (x^3 - xK)$$

$$\text{DET} = x^4 - x^2 K$$

$$\text{DET} = x(x^4 - x^2 K)$$

$$\text{DET} = x^5 - x^3 K$$

ALTERNATIVA D

$$F(-2) = 8 \rightarrow x^5 - x^3 K = 8$$

$$(-2)^5 - (-2)^3 K = 8$$

$$-32 + 8K = 8$$

$$+8K = 8 + 32$$

$$K = 40 = 5$$

$$\overline{8}$$