Wednesday, October 20, 2021 11:24 AM

$$A^{-1} = ?$$

A je mucetibilua => det(A) ≠0

$$det(A \cdot A^{-1}) = det(I)$$

72

$$AC = CA = I$$

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$$(AB)^{-1} = B^{-1}A^{-1}$$

$$(AB) \cdot (AB)^{-1} = I$$

 $(AB) \cdot (B^{-1} \cdot A^{-1}) \stackrel{?}{=} I$
 $A \cdot (BB^{-1}) \cdot A^{-1} \stackrel{?}{=} I$
 $A \cdot I \cdot A^{-1} \stackrel{?}{=} I$
 $A \cdot A^{-1} \stackrel{?}{=} I$

2)
$$(A^{-1})^{-1} = A$$

 $(A^{-1}) \cdot (A^{-1})^{-1} = I$
 $A^{-1} \cdot A^{-2} = I$
 $I = T$

4)
$$(c \cdot A)^{-1} = c \cdot A^{-1}$$

 $(c \cdot A) \cdot (c \cdot A)^{-1} = I$
 $(c \cdot A) \cdot (c \cdot A)^{-1} = I$
 $c \cdot c \cdot A \cdot A^{-1} = I$
 $I = I$

G) Cinver. =)
$$3C^{-1}$$

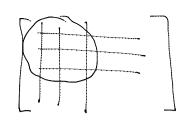
 $AC = BC / - C^{-1}$
 $ACC^{-1} = BCC^{-1}$
 $A = B$

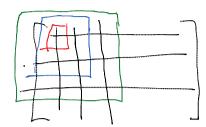
$$(AB)^{-1} \cdot (AB) = I$$

$$B^{-1} \cdot AB = I$$

$$B^{-1} \cdot B = I$$

$$I = I$$





.rang(A) = Brg Mr + ? r= 1,-,1







 $x^3+3x-5=0$ $x\times x \text{ et } 3\times \overline{m} 5 \text{ act } 0$

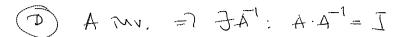
3 x et 7 y al 25 21 x et 9 y al 27 17 v. | 3 7 | | 21 9 |

18. Kramer

~19 vek 1800 ratrice

t . ×
a/b

f(x), J, Z, e, i=1-1 Ojler



$$A^{-1} \setminus A \times = b$$

$$A^{-1} A \times = A^{-1} b$$

$$I \times = A^{-1} \cdot b$$

$$X = A^{-1} \cdot b$$

jediustveuost: pps.
$$\exists x_1 \neq x_2 : Ax_1 = b$$

$$A \times 2 = b$$

$$A \times 1 = A \times 2$$

$$A \times 1 = A \times 2$$

$$(A^{-1})$$

$$A \times A \xrightarrow{-1} \times$$

$$A \times A \times X$$