(2)
$$HQGGU \ eyuuy \ u \ upougbeg-e$$

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

$$A + B = \begin{pmatrix} 5 & -3 \\ 3 & 5 \end{pmatrix} \quad A \cdot B = \begin{pmatrix} 1 & 1 \\ 12 & 3 \end{pmatrix}$$

$$B \cdot A = \begin{pmatrix} 1 & -8 \\ 15 & 0 \end{pmatrix}$$

(3)
$$A = \begin{pmatrix} 1 & 7 \\ 3 & -6 \end{pmatrix}$$
 $B = \begin{pmatrix} 5 \\ 2 & -1 \end{pmatrix}$ $C = \begin{pmatrix} 2 & -4 \\ 1 & 1 \end{pmatrix}$
 $3A - 2B + 4C = \begin{pmatrix} 3 & 21 \\ 9 & -18 \end{pmatrix} + \begin{pmatrix} 0 & -10 \\ -4 & 2 \end{pmatrix} + \begin{pmatrix} 3 & -16 \\ 4 & 4 \end{pmatrix} = \begin{pmatrix} 3 & 11 \\ 5 & -16 \end{pmatrix} + \begin{pmatrix} 2 & -16 \\ 4 & 4 \end{pmatrix} = \begin{pmatrix} 11 & -5 \\ 9 & -12 \end{pmatrix}$
(4) $A = \begin{pmatrix} 4 & 1 \\ 5 & -2 \\ 2 & 3 \end{pmatrix}$ $A^{T} = \begin{pmatrix} 4 & 5 & 2 \\ 1 & -2 & 3 \end{pmatrix}$
 $A \cdot A^{T} = \begin{pmatrix} 17 & 18 & 11 \\ 18 & 29 & 4 \\ 11 & 4 & 13 \end{pmatrix}$ $A^{T} \cdot A = \begin{pmatrix} 45 & 0 \\ 0 & 14 \end{pmatrix}$

(6)
$$a$$
 $\begin{vmatrix} \sin x - \cos x \\ \cos x + \sin x \end{vmatrix} = 5in^2x + \cos^2x = 1$
(8) $\begin{vmatrix} 423 \\ 051 \\ 009 \end{vmatrix} = 4.5 \cdot 9 = 180$
(9) $\begin{vmatrix} 123 \\ 456 \\ 789 \end{vmatrix} = 4.89 \begin{vmatrix} 26 \\ 789 \end{vmatrix} + 3.78 \begin{vmatrix} 45 \\ 789 \end{vmatrix} = -3 + 12 - 9 = 0$

$$(7)$$
 det $(A) = 4$ $(n.9)$
a) det $(A^2) = \det(A \cdot A) = \det(A \cdot \det(A) = 16$
b) det $(A^T) = \det(A) = 4$ $(n.1)$
b) det $(2A) = 2^n \cdot \det(A) = 2^n \cdot 4$, eye $n - nopagone$ el-ya A

(3) DOR-16, TO SI-JA CERPONGEREIAS

(-2 7 -3) COMALIEO N. 6 CLOET CT 6

(4 -14 6) ONDEGENATERA, ONDE
-3 7 13) GENETIENE STOET SLATPEUSE

POEBOTH O, T.R. REPERE 2 CAPONCE

NEIREITEN 3 ABUCELLES TO STOLLY

GARRIAR III-YA BEEPENGERIEAS.

) Maine pares a) $\binom{123}{111} * 3 cp = 1 cp + 2 crp$ (123) repertebelli cp. u boertey 1121=1, T.O. 3 cm = 1 cm + 2 cm - youpowar 12356 | Courail ces 30 200 00 43 0021 (2356) rank=3