$$8.2A - 4B + 3E$$

$$= \begin{pmatrix} 2 & 2 & -16 \\ 2 & -8 & 0 \end{pmatrix} - \begin{pmatrix} 8 & -8 & 0 \\ 12 & 4 & 16 \end{pmatrix} + \begin{pmatrix} 3 & 0 & 0 \\ 0 & 3 & 0 \end{pmatrix}$$

$$= \begin{pmatrix} -3 & 10 & -16 \\ -10 & -6 & 9 & -16 \\ 8 & 6 & 5 \end{pmatrix}$$

$$9.5) A.B = \begin{pmatrix} 2+0+6-4 & |+0-4+1| \\ b+|+0+8 & |+0+0-2| \end{pmatrix} = \begin{pmatrix} 4 & -2 \\ |5 & | \end{pmatrix}$$

$$10. \begin{pmatrix} 1 & -1 & | \\ 2 & 0 & | \\ -1 & 1 & 0 \end{pmatrix}^{2} = \begin{pmatrix} 1-2-| & -|+0+| & |-1+0| \\ 2+0-| & -2+0+| & |+0+0| \\ -|+1+0| & |+0+0| & -|+1+0| \end{pmatrix}$$

$$=\begin{pmatrix} -2 & 0 & 0 \\ 1 & -1 & 2 \\ 1 & 1 & 0 \end{pmatrix}$$

11.
$$Aebaa!$$
 $(AtB)^2 = {5 \ 3 \ 13 \ -3}^2 = {25 + 123 \ 39 \ 39 + 9}$

$$= {64 \ 6 \ 26 \ 48}$$
 $mabaa!$ $A^2 + 2A \cdot B + B^2 = {9 - 5 \ -3 + 6}$

$$= {5 - 30 \ -5 + 36} + 4$$

$$+ 2 {6 - 8 \ 12 - 3 \ 10 - 48 \ 20 - 18} + 4$$

$$+ {4 + 32 \ 8 + 12 \ 16 + 24 \ 32 + 9}$$

$$= {4 + 2x - 2 + 36 \ 3 + 2x + 9 + 20 \ -15 + 2x - 38 + 40 \ 31 + 2x + 24 + 1}$$

$$= {4 - 236 \ 41 \ -51 \ 76}$$

(AtB)2 + A2 + 2AB+ B2

$$f_{1}x_{1}=x^{2}-2x$$

$$= \begin{pmatrix} 16-15 & -12 + 5 \\ 20+5 & -15+1 \end{pmatrix} - 2 \begin{pmatrix} 4 & -3 \\ 5 & 1 \end{pmatrix}$$

$$= \begin{pmatrix} 1-8 & -7+6 \\ -15 & -16 \end{pmatrix} \begin{pmatrix} 1-8 & -15+6 \\ 25-10 & -14-2 \end{pmatrix} = \begin{pmatrix} -7 & -9 \\ 15 & -16 \end{pmatrix}$$

22. a)
$$\begin{vmatrix} -1 & 2 & 0 \\ 3 & 1 & 4 \end{vmatrix} = -5 + 0 + 16 - (0 + 12 + 30)$$

$$\begin{vmatrix} 2 & -3 & 5 \\ 2 & -3 & 5 \end{vmatrix} = 8 - 42 = -33 - 31$$

b)
$$|a^2+|$$
 ab ac $|ab|$ $|ac|$ $|ab|$ $|ac|$ $|ac|$

32.0)
$$\binom{1-2}{3} + \binom{3}{4} \times = \binom{3}{3} + \binom{4}{5}$$

$$= \frac{1}{10} \binom{4}{3} + \binom{2}{10} \binom{3}{10} + \binom{4}{10} \binom{10}{10} \binom{26}{10} \binom{2$$

34 a)
$$\begin{pmatrix} 1 & -3 & 1 & -14 & 22 \\ -2 & 1 & 3 & 3 & -9 \\ -4 & -3 & 11 & -19 & 17 \end{pmatrix}$$

$$\begin{array}{c} 1 & -3 & 1 & -14 & 22 \\ -2 & 1 & 3 & 3 & -9 \\ 0 & -15 & 15 & -75 & 105 \end{pmatrix} \xrightarrow{\text{Total Part Patheth 2}} \begin{pmatrix} 1 & -3 & 1 & -14 & 22 \\ 0 & -5 & 5 & -25 & -35 \\ 0 & -15 & 15 & -75 & 105 \end{pmatrix} \xrightarrow{\text{Total Patheth 2}} \begin{pmatrix} 2 & 1 & 3 & -1 \\ 3 & -1 & 2 & 0 \\ 1 & 3 & 4 & -2 \\ 4 & -3 & 1 & 1 \end{pmatrix} \xrightarrow{\text{Total Patheth 2}} \begin{pmatrix} 2 & 1 & 3 & -1 \\ 3 & -1 & 2 & 0 \\ 1 & 3 & 4 & -2 \\ 0 & -5 & -5 & 3 \end{pmatrix} \xrightarrow{\text{Total Patheth 2}} \begin{pmatrix} 2 & 1 & 3 & -1 \\ 3 & -1 & 2 & 0 \\ 0 & 5 & 5 & -3 \\ 0 & 5 & 5 & -3 \end{pmatrix} \xrightarrow{\text{Total Patheth 2}} \begin{pmatrix} 2 & 1 & 3 & -1 \\ 0 & 5 & 5 & -3 \\ 0 & 5 & 5 & -3 \\ 0 & 5 & 5 & -3 \\ 0 & 5 & 5 & -3 \\ \end{array}$$

Zagartue 8 eploge ombem re maburer.

Tema 2A-4B+3E, a ombem kak 2A-4B+E