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$$\mathcal{C}_{0}$$
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$$= \begin{bmatrix} 4 & -2 & 5 \\ -3 & 6 & 2 \end{bmatrix}$$

$$\begin{bmatrix} 8 & 10 & -12 \\ 8 & 10 & -26 \end{bmatrix} - \begin{bmatrix} -2 & 1 & 3 & 24 \end{bmatrix}$$

$$= \begin{bmatrix} -7 & -4 & 0 \\ 29 & 7 & -26 \end{bmatrix}$$

#3)
$$x=2$$
, $x=3$

$$x^{2} = 5x - 6$$

 $x^2 - 5x + 6 = 0$

(1)
$$AB = \begin{bmatrix} (x5 + 2x0 & 6x | +2x(-2)) \\ 3x5 + 4x0 & 3x6 + 4x(-2) \end{bmatrix}$$

= [5 2]

= [23 24]

이므로 직접 계산해본 결과

는 4x1인 행열이다.

(2) BA =
$$\begin{bmatrix} 5 & 6 \\ 0 & -2 \end{bmatrix} \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

= $\begin{bmatrix} 5x|+6x3 & 5x2+6x4 \\ 0x|+(-2)x3 & 0x2+(-2)x4 \end{bmatrix}$

$$= \begin{bmatrix} 3x(-3) + 4x1 & 3x7 + 4x(-3) \\ -1 & -1 \end{bmatrix} = \begin{bmatrix} -2 & -7 \\ -1 & -1 \end{bmatrix}$$

(2) AC =
$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$
 $\begin{bmatrix} 1 & 0 & -2 \\ 0 & 1 & 1 \end{bmatrix}$

$$= \begin{bmatrix} |x| + 2x0 & |x0 + 2x| & |x(-2) + 2x| \end{bmatrix} = \begin{bmatrix} |x| + 2x0 & |x0 + 2x| & |x(-2) + 2x| \end{bmatrix} = \begin{bmatrix} |x| + 2x0 & |x| + |x| & |x| + |x| & |x|$$

$$A(B+C) = AB + AC$$

$$= \begin{bmatrix} 4 & 7 \\ 10 & 17 \end{bmatrix} + \begin{bmatrix} 1 & 7 \\ -1 & 5 \end{bmatrix}$$
$$= \begin{bmatrix} 5 & 14 \\ 9 & 32 \end{bmatrix}$$

 $= \begin{bmatrix} 5 & 7 & -15 \\ -12 & 0 & 20 \end{bmatrix}$

 $X = \begin{bmatrix} -\frac{1}{5} & -\frac{1}{5} & -\frac{2}{5} \\ \frac{6}{5} & \frac{6}{5} & -\frac{1}{5} \\ 1 & 1 & \frac{6}{5} \end{bmatrix}$

5x2 +6x0 +1x1 -25+18+14 5-12 -28

$$= \begin{bmatrix} |x_2 + 2x| & |x_3 + 2x| &$$