

แบบฝึกหัด (7)

จงหาผลคูณในแต่ละข้อ โดยเติมเมทริกซ์ให้ถูกต้อง

$$1) A = \begin{bmatrix} 2 & 4 \end{bmatrix}, B = \begin{bmatrix} 1 \\ 3 \end{bmatrix} \text{ จะได้ } AB = \begin{bmatrix} 2(1) + 4(3) \end{bmatrix}$$

$$= \begin{bmatrix} \dots\dots\dots \end{bmatrix}$$

$$= \begin{bmatrix} \dots \end{bmatrix}$$

$$2) A = \begin{bmatrix} 3 & 6 & -2 \end{bmatrix}, B = \begin{bmatrix} -4 \\ 0 \\ 5 \end{bmatrix} \text{ จะได้ } AB = \begin{bmatrix} 3(\dots) + 6(\dots) + (-2)(\dots) \end{bmatrix}$$

$$= \begin{bmatrix} \dots\dots\dots \end{bmatrix}$$

$$= \begin{bmatrix} \dots \end{bmatrix}$$

$$3) A = \begin{bmatrix} 2 & 5 \end{bmatrix}, B = \begin{bmatrix} 1 & -1 \\ -3 & 4 \end{bmatrix} \text{ จะได้ } AB = \begin{bmatrix} 2(\dots) + 5(\dots) & 2(\dots) + 5(\dots) \end{bmatrix}$$

$$= \begin{bmatrix} \dots\dots & \dots\dots \end{bmatrix}$$

$$= \begin{bmatrix} \dots & \dots \end{bmatrix}$$

$$4) A = \begin{bmatrix} 4 & 2 \\ 3 & 5 \end{bmatrix}, B = \begin{bmatrix} 1 & -1 \\ -4 & 4 \end{bmatrix} \text{ จะได้ } AB = \begin{bmatrix} 4(\dots) + 2(\dots) & 4(\dots) + 2(\dots) \\ 3(\dots) + 5(\dots) & 3(\dots) + 5(\dots) \end{bmatrix}$$

$$= \begin{bmatrix} \dots\dots & \dots\dots \\ \dots\dots & \dots\dots \end{bmatrix}$$

$$= \begin{bmatrix} \dots & \dots \\ \dots & \dots \end{bmatrix}$$

$$5) A = \begin{bmatrix} 1 & 0 & 5 \\ 2 & 3 & 4 \end{bmatrix}, B = \begin{bmatrix} 0 & -1 \\ 6 & -2 \\ 7 & -8 \end{bmatrix} \text{ จะได้ } AB = \begin{bmatrix} 1(\dots) + 0(\dots) + 5(\dots) & 1(\dots) + 0(\dots) + 5(\dots) \\ 2(\dots) + 3(\dots) + 4(\dots) & 2(\dots) + 3(\dots) + 4(\dots) \end{bmatrix}$$

$$= \begin{bmatrix} \dots\dots & \dots\dots \\ \dots\dots & \dots\dots \end{bmatrix}$$

$$= \begin{bmatrix} \dots & \dots \\ \dots & \dots \end{bmatrix}$$

$$6) A = \begin{bmatrix} 4 & 2 \\ 3 & 5 \end{bmatrix}, B = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \text{ จะได้ } AB = \begin{bmatrix} \dots\dots & \dots\dots \\ \dots\dots & \dots\dots \end{bmatrix}$$

$$= \begin{bmatrix} \dots\dots & \dots\dots \\ \dots\dots & \dots\dots \end{bmatrix}$$

$$= \begin{bmatrix} \dots & \dots \\ \dots & \dots \end{bmatrix}$$