소프트웨어학과

학과 201603981 학반 살 201603981 성명 생생시	학과	2016039119 SEN EEENIN	학빈	生 2016039669	성명	252
------------------------------------	----	--------------------------	----	--------------	----	-----

Note: 풀이과정이 없는 답은 0점 처리됨. 간결하고 읽을 수 있도록 정자체로 쓸것.

1. (page 173) 2.7 연습문제 2

2. (page 173) 2.7 연습문제 10

3. **v**₁, **v**₂, **v**₃, **u**가 다음과 같을 때, **u**기 {**v**₁, **v**₂, **v**₃}에의해 생성되는 **ℝ⁴** 보군공간에 속하는지

$$\mathbf{v}_{1} = \begin{bmatrix} 1 \\ -2 \\ 4 \\ 3 \end{bmatrix}, \mathbf{v}_{2} = \begin{bmatrix} 4 \\ -7 \\ 9 \\ 7 \end{bmatrix}, \mathbf{v}_{3} = \begin{bmatrix} 5 \\ -8 \\ 6 \\ 5 \end{bmatrix}, \mathbf{u} = \begin{bmatrix} -4 \\ 10 \\ -7 \\ -5 \end{bmatrix}$$

4. (page 182) 2.8 each 13

$$A = \begin{bmatrix} 3 & -6 & 9 & 0 \\ 2 & -4 & 9 & 2 \\ 3 & -6 & 6 & -6 \end{bmatrix} \sim \begin{bmatrix} 0 & 3 & 6 \\ 0 & 0 & 6 \\ 0 & 0 & 6 \end{bmatrix}$$

$$3 \Rightarrow 0$$

$$\begin{bmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \\ \chi_4 \end{bmatrix} = \chi_1 \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} + \begin{bmatrix} 2 \\ 1 \\ 0 \\ 0 \end{bmatrix} \chi_2 + \begin{bmatrix} 4 \\ 0 \\ 0 \end{bmatrix} \chi_3 + \begin{bmatrix} 4 \\ 0 \\ 0 \end{bmatrix} \chi_4$$

선형대수학 2020년도 1학기

Homework #5

소프트웨어학과 Due: 10:00, May 1, 2020

5. (page 189) 2.9 연습문제 4

X=a[3]+b[-1]

(X) b=[b] olay

[W]B= [X]&

3)(-1) = 0 2(-2) 2(-2) 5(-1) 5(-1) 5(-1)

60461+0,46= 1,5[3]+0,5[2] =(4)=X AKRERISA)

"上日本外上日下去」 6. (page 189) 2.9 연습문제 $A = \begin{bmatrix} -3 & 2 & 4 \\ -3 & -6 & 4 \\ -4 & 12 \end{bmatrix} \cdot |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}| + |2^{10}|$ ~ [0 0 0 5 -9] Nul A 376/24 $\begin{bmatrix}
-1 - 32 - 40 \\
00 + - 10 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
00 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 32 - 40 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
1 - 30 - 00 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
000 + 00 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
000 + 00 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
000 + 00 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
000 + 00 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
000 + 00 \\
000 + 00
\end{bmatrix}
\begin{bmatrix}
000 + 00 \\
000 + 00
\end{bmatrix}$ 5 K1 = 35/2 223-0 24-0. 12-24/14/4