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#Jenny



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#Rio



Cool! I'am really happy

#Markus Jensen



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My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Chapter 3 15

15.7 $A^T = \begin{pmatrix} 1 & 0 \\ -1 & 0 \end{pmatrix}$, $A^{-1} = \begin{pmatrix} 1 & -1 \\ 0 & -1 \end{pmatrix}$, $AB = \begin{pmatrix} 2 & -2 \\ 0 & 0 \end{pmatrix}$
 $\bar{A} = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$, $B^T A^T = (AB)^T$, $B^T A C = \begin{pmatrix} 2 & 0 \\ -1 & -2 \\ 0 & 1 \end{pmatrix}$
 $A^T = \begin{pmatrix} 1 & 0 \\ -1 & 0 \end{pmatrix}$, $B^T C = \begin{pmatrix} 2 & 0 \\ -1 & -2 \\ 0 & 1 \end{pmatrix}$, $C^{-1} A = \begin{pmatrix} 0 & -1 \\ 1 & -1 \end{pmatrix}$
 $A^T B^T$, $B A^T$, $A B C$, $A B^T C$, $B^T C$, and $C B^T$ are nonsingular.

15.8 $A^T = \begin{pmatrix} 1 & -1 \\ 0 & -2 \\ 0 & 0 \end{pmatrix}$, $A^{-1} = \frac{1}{2} \begin{pmatrix} -2 & 0 & 0 \\ 0 & -1 & -1 \\ 0 & 0 & -1 \end{pmatrix}$

15.9 $A = \begin{pmatrix} 1 + \frac{2i}{\sqrt{2}} & -i + i \\ -i & 1 - \frac{2i}{\sqrt{2}} \end{pmatrix}$, $\frac{1}{2} = -A_{11}$

15.19 $M = \begin{pmatrix} 1 & -i \\ i & 1 \end{pmatrix}$, $\frac{1}{2} = \frac{1}{2} \det M$, $\det M = 1$

15.13 Area = $\frac{1}{2} |PQ \times PR| = 7/2$

15.14 $\rho^2 = -6$, $\rho^2 = 6$, 180° rotation

15.15 $\rho^2 = 16$, $\rho^2 = 16$, 90° rotation of vectors or -90° rotation of axis

15.16 $\rho^2 = 9$, $\rho^2 = 9$, 90° rotation of (x, y) axis about the z axis.

15.17 $\rho^2 = 0$, $\rho^2 = 0$, 180° rotation of vectors about the z axis

15.17 $\rho^2 = 0$, $\rho^2 = 0$, 180° rotation of σ about the x axis

15.18 $\begin{pmatrix} 1 & 1 & 1 \\ -2 & 0 & 1 \\ 0 & 0 & 0 \end{pmatrix}$, $\begin{pmatrix} 15 & 9 & 1 \\ 1 & -4 & 9 \\ 0 & 0 & 0 \end{pmatrix}$, $\begin{pmatrix} 15 & 9 & 1 \\ 1 & -4 & 9 \\ 0 & 0 & 0 \end{pmatrix}$

15.19 $\begin{pmatrix} 0 & 0 & -2 \\ 5 & 12 & 1 \\ 0 & 0 & 0 \end{pmatrix}$, $\begin{pmatrix} 15 & 9 & 1 \\ 1 & -4 & 9 \\ 0 & 0 & 0 \end{pmatrix}$, $\begin{pmatrix} 15 & 9 & 1 \\ 1 & -4 & 9 \\ 0 & 0 & 0 \end{pmatrix}$

15.21 $\begin{pmatrix} 2 & 0 & 4 \\ 7 & 1 & -4 \\ -3 & 0 & 4 \end{pmatrix}$

15.25 $C = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$, $C^{-1} = \begin{pmatrix} \sqrt{2} & 0 \\ 0 & \sqrt{2} \end{pmatrix}$

15.26 $C = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$, $C^{-1} = \frac{1}{\sqrt{2}} \begin{pmatrix} \sqrt{2} & 0 \\ 0 & \sqrt{2} \end{pmatrix}$

15.27 $2d^2 - d^2 = 15$, $d = \sqrt{15}$

15.28 $3d^2 + 4d^2 = 36$, $d = 3$

15.29 $2d^2 + 4d^2 = 54$, $d = 3$

15.30 $7d^2 + 20d^2 = 63$, $d = 3$

15.31 $\omega = (1, \sqrt{3})^{1/2}$, $(2, \sqrt{3})^{1/2}$

15.32 $\omega = 2(1, \sqrt{3})^{1/2}$, $(3, \sqrt{3})^{1/2}$

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