

# Download File PDF Methods Of Applied Mathematics Hildebrand Solution Manual

#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  $A^T = \begin{pmatrix} 1 & 0 \\ -1 & 0 \end{pmatrix}$ ,  $A^{-1} = \begin{pmatrix} 1 & -1 \\ 0 & -1 \end{pmatrix}$ ,  $AB = \begin{pmatrix} 2 & -2 \\ 0 & 2 \end{pmatrix}$   
 $\bar{A} = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$ ,  $B^T A^T = (AB)^T$ ,  $B^T A C = \begin{pmatrix} 2 & 2 \\ -1 & -2 \\ 1 & -1 \end{pmatrix}$   
 $A^T = \begin{pmatrix} 1 & 0 \\ -1 & 0 \end{pmatrix}$ ,  $B^T C = \begin{pmatrix} 2 & 2 \\ 1 & -1 \end{pmatrix}$ ,  $C^{-1} A = \begin{pmatrix} 0 & -1 \\ 1 & -1 \end{pmatrix}$   
 $A^T B^T$ ,  $B A^T$ ,  $A B^T C$ ,  $A B^T C$ ,  $B^T C$ , and  $C B^T A$  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  $A = \begin{pmatrix} 1 + \frac{2i}{\sqrt{2}} & -i + i \\ -i & 1 - \frac{2i}{\sqrt{2}} \end{pmatrix}$ ,  $\frac{1}{2} = -A_{22}$

15.19  $M = \begin{pmatrix} 1 & -\frac{1}{2} & \frac{1}{2} \\ 0 & 1 & -\frac{1}{2} \\ 0 & 0 & 1 \end{pmatrix}$ ,  $\frac{1}{2} = \frac{1}{2} \det M = 1$

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  $\sigma$  about the x axis

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

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

15.21  $\begin{pmatrix} 2 & 0 & 4 & 0 \\ 7 & 15 & -4 & 0 \\ -3 & 1 & 1 & -4 \end{pmatrix}$

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

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

15.27  $2d^2 - d^2 - 3d^2 = 15$ ,  $d = \sqrt{5}$

15.28  $3d^2 + 6d^2 - d^2 = 36$ ,  $d = 3$

15.29  $2d^2 + 6d^2 - 4d^2 = 54$ ,  $d = 3$

15.30  $7d^2 + 28d^2 - 6d^2 = 28$ ,  $d = 1$

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

15.32  $\omega = 25(\cos)^{1/5}$ ,  $(38, \cos)^{1/5}$

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