

## CHAPTER 2, PART A

2.1 Given

$$[S_{ij}] = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 1 & 2 \\ 3 & 0 & 3 \end{bmatrix} \text{ and } [a_i] = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$$

Evaluate (a)  $S_{ii}$ , (b)  $S_{ij}S_{ij}$ , (c)  $S_{ji}S_{ji}$ , (d)  $S_{jk}S_{kj}$ , (e)  $a_m a_m$ , (f)  $S_{mm}a_m a_m$ , (g)  $S_{mm}a_m a_m$ .

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*Ans.* (a)  $S_{ii} = S_{11} + S_{22} + S_{33} = 1 + 1 + 3 = 5$ .(b)  $S_{ij}S_{ij} = S_{11}^2 + S_{12}^2 + S_{13}^2 + S_{21}^2 + S_{22}^2 + S_{23}^2 + S_{31}^2 + S_{32}^2 + S_{33}^2 =$   
 $1 + 0 + 4 + 0 + 1 + 4 + 9 + 0 + 9 = 28$ .(c)  $S_{ji}S_{ji} = S_{ij}S_{ij} = 28$ .(d)  $S_{jk}S_{kj} = S_{1k}S_{k1} + S_{2k}S_{k2} + S_{3k}S_{k3}$   
 $= S_{11}S_{11} + S_{12}S_{21} + S_{13}S_{31} + S_{21}S_{12} + S_{22}S_{22} + S_{23}S_{32} + S_{31}S_{13} + S_{32}S_{23} + S_{33}S_{33}$   
 $= (1)(1) + (0)(0) + (2)(3) + (0)(0) + (1)(1) + (2)(0) + (3)(2) + (0)(2) + (3)(3) = 23$ .(e)  $a_m a_m = a_1^2 + a_2^2 + a_3^2 = 1 + 4 + 9 = 14$ .(f)  $S_{mm}a_m a_m = S_{1m}a_m a_m + S_{2m}a_m a_m + S_{3m}a_m a_m =$   
 $S_{11}a_1 a_1 + S_{12}a_1 a_2 + S_{13}a_1 a_3 + S_{21}a_2 a_1 + S_{22}a_2 a_2 + S_{23}a_2 a_3 + S_{31}a_3 a_1 + S_{32}a_3 a_2 + S_{33}a_3 a_3$   
 $= (1)(1)(1) + (0)(1)(2) + (2)(1)(3) + (0)(2)(1) + (1)(2)(2) + (2)(2)(3) + (3)(3)(1)$   
 $+ (0)(3)(2) + (3)(3)(3) = 1 + 0 + 6 + 0 + 4 + 12 + 9 + 0 + 27 = 59$ .(g)  $S_{mm}a_m a_m = S_{mm}a_m a_m = 59$ .2.2 Determine which of these equations have an identical meaning with  $a_i = Q_{ij}a'_j$ .(a)  $a_p = Q_{pm}a'_m$ , (b)  $a_p = Q_{qp}a'_q$ , (c)  $a_m = a'_m Q_{mm}$ .

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*Ans.* (a) and (c)

2.3 Given the following matrices

$$[a_i] = \begin{bmatrix} 1 \\ 0 \\ 2 \end{bmatrix}, [B_{ij}] = \begin{bmatrix} 2 & 3 & 0 \\ 0 & 5 & 1 \\ 0 & 2 & 1 \end{bmatrix}$$

Demonstrate the equivalence of the subscripted equations and corresponding matrix equations in the following two problems.

(a)  $b_i = B_{ij}a_j$  and  $[b] = [B][a]$ , (b)  $s = B_{ij}a_i a_j$  and  $s = [a]^T [B][a]$ 

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*Ans.* (a) $b_1 = B_{ij}a_j \rightarrow b_1 = B_{1j}a_j = B_{11}a_1 + B_{12}a_2 + B_{13}a_3 = (2)(1) + (3)(0) + (0)(2) = 2$  $b_2 = B_{2j}a_j = B_{21}a_1 + B_{22}a_2 + B_{23}a_3 = 2, \quad b_3 = B_{3j}a_j = B_{31}a_1 + B_{32}a_2 + B_{33}a_3 = 2$ .

# Continuum Lai Solution Manual

**R Sanford**



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