

$$D^{-1}$$

| | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] |
|------|------|------|------|------|------|------|
| [1,] | 1 | 0 | 0 | 0 | 0 | 0 |
| [2,] | 0 | 1 | 0 | 0 | 0 | 0 |
| [3,] | 0 | 0 | 1 | 0 | 0 | 0 |
| [4,] | 0 | 0 | 0 | 2 | 0 | 0 |
| [5,] | 0 | 0 | 0 | 0 | 2 | 0 |
| [6,] | 0 | 0 | 0 | 0 | 0 | 2 |

$$L^{-1}$$

| | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] |
|------|------|------|------|------|------|------|
| [1,] | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 |
| [2,] | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0 |
| [3,] | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0 |
| [4,] | -0.5 | -0.5 | 0.0 | 1.0 | 0.0 | 0 |
| [5,] | 0.0 | -0.5 | -0.5 | 0.0 | 1.0 | 0 |
| [6,] | 0.0 | 0.0 | 0.0 | -0.5 | -0.5 | 1 |

| | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] |
|------|------|------|------|------|------|------|
| [1,] | 1 | 0 | 0 | -0.5 | 0.0 | 0.0 |
| [2,] | 0 | 1 | 0 | -0.5 | -0.5 | 0.0 |
| [3,] | 0 | 0 | 1 | 0.0 | -0.5 | 0.0 |
| [4,] | 0 | 0 | 0 | 1.0 | 0.0 | -0.5 |
| [5,] | 0 | 0 | 0 | 0.0 | 1.0 | -0.5 |
| [6,] | 0 | 0 | 0 | 0.0 | 0.0 | 1.0 |

$$(L^T)^{-1}$$

| | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] |
|------|------|------|------|------|------|------|
| [1,] | 1 | 0 | 0 | -1 | 0 | 0 |
| [2,] | 0 | 1 | 0 | -1 | -1 | 0 |
| [3,] | 0 | 0 | 1 | 0 | -1 | 0 |
| [4,] | 0 | 0 | 0 | 2 | 0 | -1 |
| [5,] | 0 | 0 | 0 | 0 | 2 | -1 |
| [6,] | 0 | 0 | 0 | 0 | 0 | 2 |

$$(L^T)^{-1} \cdot D^{-1}$$

| | [,1] | [,2] | [,3] | [,4] | [,5] | [,6] |
|------|------|------|------|------|------|------|
| [1,] | 1.5 | 0.5 | 0.0 | -1.0 | 0.0 | 0 |
| [2,] | 0.5 | 2.0 | 0.5 | -1.0 | -1.0 | 0 |
| [3,] | 0.0 | 0.5 | 1.5 | 0.0 | -1.0 | 0 |
| [4,] | -1.0 | -1.0 | 0.0 | 2.5 | 0.5 | -1 |
| [5,] | 0.0 | -1.0 | -1.0 | 0.5 | 2.5 | -1 |
| [6,] | 0.0 | 0.0 | 0.0 | -1.0 | -1.0 | 2 |

$$A^{-1}$$