```
1
                                                               2
                        3
                                                  5
                                                                                                               3
                                                 5
                                                      4
                                                                               5
                                                                                                       3
                  4+12 + 12
                                 5+10+18
                                               6+8+15
        AB :
                  12 + 12 + 4
                                15+ 10+ 6
                                              18 + 8+ 5
                                                                              4 + 15 + 6
                                                                                           8+10+12
                                                                                                       11. + 5 + 14
                                                                      BA =
                  4+12+12
                                5+ 10+18
                                              6+ 8+ 15
                                                                               6+15+4
                                                                                          12+10+8
                                                                                                       19 + 5 + 12
                                                                                          3 + 12 + 10
                                                                                                       12 + 6 + 15
                        33
                            19
                  28
                                                                                15
                                                                                            35
                                                                                       30
                  28
                             31
                        31
                                                                                       30
                                                                                            35
                  28
                        33
                             29
                                                                                17
                                                                                       30
                                                                                            33
```

```
Check AxB
                                                                                                                                                                              Check
                                                                                                                                                                                                       BXA
 Computational Inputs:
                                                                                                                                                                        Computational Inputs:
» matrix 1: {{1,2,3},{3,2,1},{1,2,3}}
                                                                                                                                                                       » matrix 1: {{4,5,6},{6,5,4},{4,6,5}}
» matrix 2: {{4,5,6},{6,5,4},{4,6,5}}
                                                                                                                                                                        » matrix 2: {{1,2,3},{3,2,1},{1,2,3}}
 Also include: matrix 3
                                                                                                                                                                        Also include: matrix 3
                                                                                                                                                                       Input
                                                                                                                                                                        \begin{pmatrix} 4 & 5 & 6 \\ 6 & 5 & 4 \\ 4 & 6 & 5 \end{pmatrix} \cdot \begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} 
\begin{pmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \\ 1 & 2 & 3 \end{pmatrix} \cdot \begin{pmatrix} 4 & 5 & 6 \\ 6 & 5 & 4 \\ 4 & 6 & 5 \end{pmatrix}
                                                                                                                                                                      Result
                                                                                                                                                                                                                                                                                          Step-by-step solution ■
Result
                                                                                                                                                                        25 30 35
 28 33 29
                                                                                                                                                                        25 30 35
 28 31 31
28 33 29
                                                                                                                                                                      Dimensions
                                                                                                                                                                      3 (rows) × 3 (columns)
3 	ext{ (rows)} \times 3 	ext{ (columns)}
```

Code