

```
>
```

実習9.3

```
> with(LinearAlgebra) :
```

```
> A := Matrix([[2, 3], [3, 1]])
```

$$A := \begin{bmatrix} 2 & 3 \\ 3 & 1 \end{bmatrix}$$

(1)

```
> B := Matrix([[3, 4], [5, 3]])
```

$$B := \begin{bmatrix} 3 & 4 \\ 5 & 3 \end{bmatrix}$$

(2)

```
>
```

(1)

```
> A(-1)
```

$$\begin{bmatrix} -\frac{1}{7} & \frac{3}{7} \\ \frac{3}{7} & -\frac{2}{7} \end{bmatrix}$$

(3)

(2)

```
> Transpose(Transpose(A))
```

$$\begin{bmatrix} 2 & 3 \\ 3 & 1 \end{bmatrix}$$

(4)

(3)

```
> (A · B)(-1)
```

$$\begin{bmatrix} \frac{15}{77} & -\frac{17}{77} \\ -\frac{2}{11} & \frac{3}{11} \end{bmatrix}$$

(5)

(4)

```
> A(-1) · B(-1)
```

$$\begin{bmatrix} \frac{18}{77} & -\frac{13}{77} \\ -\frac{19}{77} & \frac{18}{77} \end{bmatrix}$$

(6)

(5)

```
> B(-1) · A(-1)
```

$$\begin{bmatrix} \frac{15}{77} & -\frac{17}{77} \\ -\frac{2}{11} & \frac{3}{11} \end{bmatrix}$$

(7)

(6)

```
> (B - A)(-1)
```

Error, (in rtable/Power) singular matrix

└─ 逆行列は存在しない

└─ (7)

└─ > $Determinant(B - A)$

0

(8)

└─ (8)

└─ > $Determinant(A)$

-7

(9)

└─ (9)

└─ > $Determinant(Transpose(A))$

-7

(10)

└─ >