```
> restart
> AA := array([[2, 3], [1, 4]])
```

$$AA := \begin{bmatrix} 2 & 3 \\ 1 & 4 \end{bmatrix} \tag{1}$$

```
> with(linalg) :
> MatExp := exponential(AA, t)
```

$$MatExp := \begin{bmatrix} \frac{3}{4}e^{t} + \frac{1}{4}e^{5t} & \frac{3}{4}e^{5t} - \frac{3}{4}e^{t} \\ \frac{1}{4}e^{5t} - \frac{1}{4}e^{t} & \frac{1}{4}e^{t} + \frac{3}{4}e^{5t} \end{bmatrix} \tag{2}$$

```
> DerMatExp := map(diff, MatExp, t)
```

$$DerMatExp := \begin{bmatrix} \frac{3}{4}e^{t} + \frac{5}{4}e^{5t} & \frac{15}{4}e^{5t} - \frac{3}{4}e^{t} \\ \frac{5}{4}e^{5t} - \frac{1}{4}e^{t} & \frac{1}{4}e^{t} + \frac{15}{4}e^{5t} \end{bmatrix} \tag{3}$$

```
> AAA := map(rcurry(eval, t = '0'), DerMatExp)
```

$$AAA := \begin{bmatrix} 2 & 3 \\ 1 & 4 \end{bmatrix} \tag{4}$$

```
>
```