

```
ClearAll["Global`*","];
```

```
A = {{1, 0}, {0, 1/√10}};
```

```
B = MatrixExp[{{(-4 * π) / 11, 0}, {(40 * π) / (11 * √10), 0}}] // FullSimplify
```

```
AA = {{1, 0}, {0, 10/√10}};
```

Out[ ]=

```
{ {e-4 π/11, 0}, {√10 (1 - e-4 π/11), 1} }
```

In[ ]:=

```
M = {{E-4 * π / 11, 0}, {1 - E-4 * π / 11, 1}};
```

```
T = 20 * π / 11;
```

```
eig = Eigenvalues[M]
```

```
Log[eig]
```

Out[ ]=

```
{1, e-4 π/11}
```

Out[ ]=

```
{0, -4 π/11}
```