Linear Algebra Foundations #7 - The 1000th Power of a Matrix

You are provided a matrix A =

```
[-2     -9 ]
[ 1      4 ]
```

The 1000th power of A, i.e. A^{1000} =

```
[A  B]
[C  D]
```

In the text box below, enter the integers A, B, C and D each on a new line, respectively. Do not leave any leading or trailing spaces.