

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

You are provided a matrix  $A =$

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

The 1000<sup>th</sup> 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.