

```
>> A=[3 -4 2;0 2 1;4 -5 3]
```

```
A =
```

```
 3 -4  2  
 0  2  1  
 4 -5  3
```

```
>> A^-1
```

```
ans =
```

```
11  2 -8  
 4  1 -3  
-8 -1  6
```

```
>> inv(A)
```

```
ans =
```

```
11  2 -8  
 4  1 -3  
-8 -1  6
```

```
>> B=[A eye(3)]
```

```
B =
```

```
 3 -4  2  1  0  0  
 0  2  1  0  1  0  
 4 -5  3  0  0  1
```

```
>> C=rref(B)
```

```
C =
```

```
 1  0  0 11  2 -8  
 0  1  0  4  1 -3  
 0  0  1 -8 -1  6
```

```
>> D=[C(:,4) C(:,5) C(:,6)]
```

```
D =
```

```
11  2 -8  
 4  1 -3  
-8 -1  6
```

```
>> >> D*A
```

```
ans =
```

```
 1  0  0
 0  1  0
 0  0  1
```

```
>> A*D
```

```
ans =
```

```
 1  0  0
 0  1  0
 0  0  1
```

```
>> M=[20 8 1;20 19 0; 14 15 0;13 15 15;14 0 0]
```

```
M =
```

```
 20  8  1
 20 19  0
 14 15  0
 13 15 15
 14  0  0
```

```
>> E=M*A
```

```
E =
```

```
 64 -69  51
 60 -42  59
 42 -26  43
 99 -97  86
 42 -56  28
```

```
>> E*inv(A)
```

```
ans =
```

```
 20  8  1
 20 19  0
 14 15  0
 13 15 15
 14  0  0
```

```
>>
```