

```
>> q2
```

```
Hp1 =
```

```
    0.0333    0.0667    0.1000    0.1333
```

```
Hp2 =
```

```
    1.0000    0.5000    0.0000   -0.5000  
   -0.3000   -0.1000    0.1000    0.3000
```

```
Moore - Penrose Inverse
```

```
Result 1
```

```
for Matrix 1
```

```
(H * H+ * H) = H
```

```
Ha1 =
```

```
1  
2  
3  
4
```

```
for matrix 2
```

```
Hb1 =
```

```
1    1  
1    2  
1    3  
1    4
```

```
result 2
```

```
(H+ * H * H+) = H+
```

```
Ha2 =
```

```
    0.0333    0.0667    0.1000    0.1333
```

```
Hb2 =
```

```
    1.0000    0.5000    0.0000   -0.5000  
   -0.3000   -0.1000    0.1000    0.3000
```

```
result 3
```

```
for Matrix 1
```

```
transpose(H*H+) = H*H+
```

```
Haspl =
```

0.0333	0.0667	0.1000	0.1333
0.0667	0.1333	0.2000	0.2667
0.1000	0.2000	0.3000	0.4000
0.1333	0.2667	0.4000	0.5333

Ha3 =

0.0333	0.0667	0.1000	0.1333
0.0667	0.1333	0.2000	0.2667
0.1000	0.2000	0.3000	0.4000
0.1333	0.2667	0.4000	0.5333

for matrix 2

transpose(H\*H+) = H\*H+

Hbspl =

0.7000	0.4000	0.1000	-0.2000
0.4000	0.3000	0.2000	0.1000
0.1000	0.2000	0.3000	0.4000
-0.2000	0.1000	0.4000	0.7000

Hb3 =

0.7000	0.4000	0.1000	-0.2000
0.4000	0.3000	0.2000	0.1000
0.1000	0.2000	0.3000	0.4000
-0.2000	0.1000	0.4000	0.7000

result 4

for matrix 1

transpose(H+ \* H) = (H+ \* H)

Haspl2 =

1

Ha4 =

1

for matrix 2

transpose(H+ \* H) = (H+ \* H)

Hbspl2 =

1      0

```
0    1
```

```
Hb4 =
```

```
1    0  
0    1
```

```
>>
```