ans =

3 2 1
1 1 2
2 2 3

>> A'

```
3)

ans =

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

```
>> 4*A
  ans =
4)
     12
       4 8
     8
       4 8
          8 12
     4
   >> A*B
   ans =
5)
      7 3 0
      6 2 1
      8 1 4
  >> norm(A)
6)
  ans =
     5.8199
```

```
7)
```

```
>> inv(A)

ans =

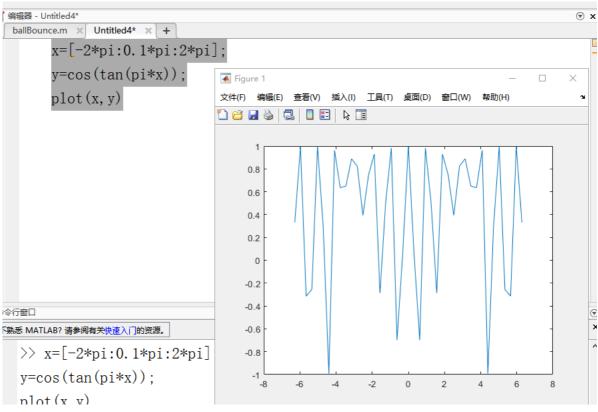
1.0000 -1.0000 0.0000
4.0000 -7.0000 2.0000
-3.0000 5.0000 -1.0000
```

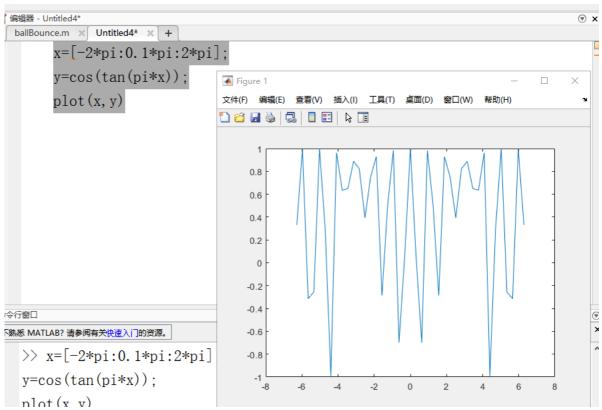
2

```
function[meter, hight] = ballBounce(hight_q,times)
hight = hight_q/2^times;
meter = 0;
if (times > 1)
    meter = meter + hight_q;
end
times=times-1;
while(times-2 > 0)
    meter=meter + 2*(hight_q/2);
    hight_q = hight_q / 2;
    times=times-2;
end
meter=meter + hight_q / 2;
end
```

```
>> [meter, hight]=ballBounce(100, 10)
meter =
    290.6250
hight =
    0.0977
```

```
x=[-2*pi:0.1*pi:2*pi];
y=cos(tan(pi*x));
plot(x,y)
fplot(@(x)cos(tan(pi*x)))
```





```
x=linspace(-100,100);
y1=x.^2;
y2=x.^3;
y3=x.^4;
y4=x.^5;
plot(x,y1,x,y2,x,y3,x,y4);
legend({'y1=x.^2','y2=x.^3','y3=x.^4','y4=x.^5'},'Location','southwest')
```

