تمرین هفتم مطلب

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Q1:

```
function myStd=mStd(A)
[r,c]=size(A);
x=0;
for i=1:(r*c)
  x=x+A(i);
endfor
x=x/(r*c);
myStd=0;
for j=1:(r*c)
  myStd=myStd+((A(j)-x)^2);
endfor
myStd=sqrt(myStd/((r*c)-1))
end
```

Q2:

```
function [p,s]=circle(r)
  p=pi*r*2;
  s=pi*r*r;
end
```

Q3:

```
function [x,v]=calc(a,v0,t)
  if t>5
    x=(-0.5)*a*t*t+v0*t*t*t;
    v=(-2)*a*t*t*t+v0*v0;
  elseif t<=5
    x=0.5*a*t*t+v0*t;
    v=sqrt(2*a*t+v0*v0);
```

```
 endif
 end
```

Q4:

```
clear
clc
A=input('Enter the matrix here: ');
[r,c]=size(A);
for v=1:r
 B(v,1)=0;
end
for i=1:r
 for j=1:c
    B(i,1)=B(i,1)-(A(i,j)*((-1)^j))
 endfor
end
for p=1:r
 C(p,1)=factorial(abs(B(p,1)))
 End
```

Q6:

```
clear
clc
fun = @(x) exp(-x.^0.8).+2;
q = integral(fun,0,8)
```