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)