```
% name-amlan nayak
% reg no.-19bcd7143
% date- 20/9/19

clc
clear all
syms x y t
F = [x-y x];
r = [cos(t) sin(t)]
```

r = $(\cos(t) \quad \sin(t))$

```
l = 0
```

l = 0

```
u = 2*pi
```

u = 6.2832

```
dr1 = diff(r,t)
```

dr1 = $(-\sin(t) \quad \cos(t))$

```
f1 = subs(F,[x,y],[r(1),r(2)])
```

f1 = $(\cos(t) - \sin(t) \quad \cos(t))$

```
nf = f1.*dr1
```

nf = $(-\sin(t) \ (\cos(t) - \sin(t)) \quad \cos(t)^2)$

```
nf1 = sum(nf)
```

nf1 = $\cos(t)^2 - \sin(t) \ (\cos(t) - \sin(t))$

```
i = int(nf1,t,l,u)
```

i = $2\,\pi$

```
P = inline(vectorize(F(1)), 'x', 'y')
```

P =

```
     Inline function:
     P(x,y) = x - y
```

```
Q = inline(vectorize(F(2)), 'x', 'y')
```

Q =

```
     Inline function:
     Q(x,y) = x
```

```
x = linspace(0,2*pi,10);y=x
```

```
y = 1×10
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869 ⋯
```

```
[X,Y] = meshgrid(x,y)
```

```
X = 10×10
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869 ⋯
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
Y = 10×10
         0         0         0         0         0         0         0         0 ⋯
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

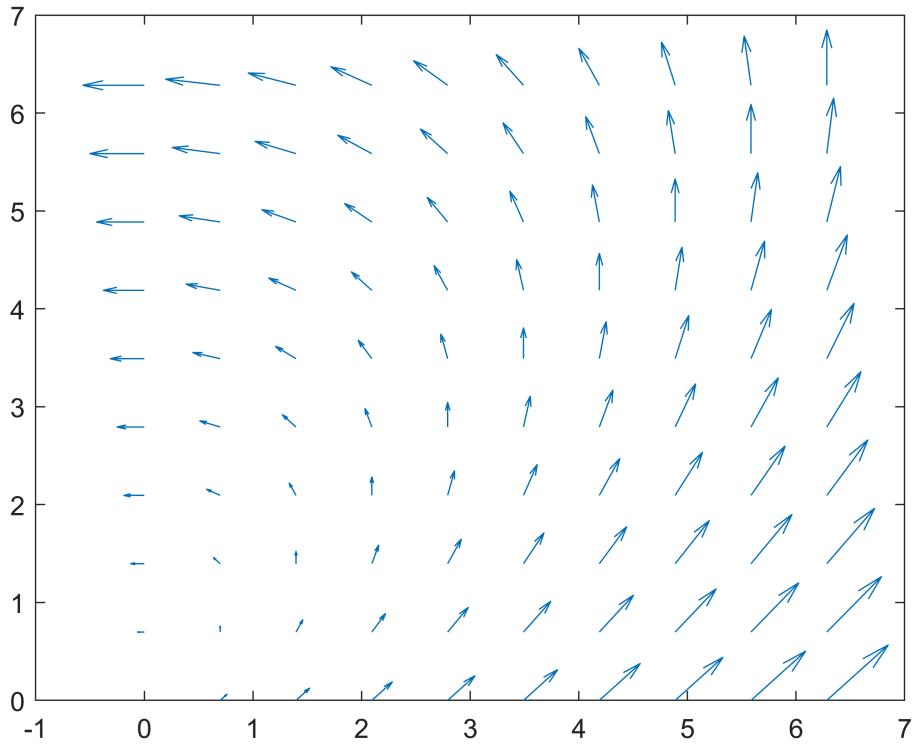
```
U = P(X,Y)
```

```
U = 10×10
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869 ⋯
   -0.6981         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888
   -1.3963   -0.6981         0    0.6981    1.3963    2.0944    2.7925    3.4907
   -2.0944   -1.3963   -0.6981         0    0.6981    1.3963    2.0944    2.7925
   -2.7925   -2.0944   -1.3963   -0.6981         0    0.6981    1.3963    2.0944
   -3.4907   -2.7925   -2.0944   -1.3963   -0.6981         0    0.6981    1.3963
   -4.1888   -3.4907   -2.7925   -2.0944   -1.3963   -0.6981         0    0.6981
   -4.8869   -4.1888   -3.4907   -2.7925   -2.0944   -1.3963   -0.6981         0
   -5.5851   -4.8869   -4.1888   -3.4907   -2.7925   -2.0944   -1.3963   -0.6981
   -6.2832   -5.5851   -4.8869   -4.1888   -3.4907   -2.7925   -2.0944   -1.3963
```

```
V = Q(X,Y)
```

```
V = 10×10
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869 ⋯
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869
```

```
quiver(x,y,U,V)
```


7
6
5
4
3
2
1
0
-1
0
1
2
3
4
5
6
7

```
% name-amlan nayak
% reg no.-19BCD7143
% date-20/9/19

clc
clear all
syms x y z t
F = [x z y];
r = [cos(t) sin(t) t]
```

r = $(\cos(t) \quad \sin(t) \quad t)$

```
l = 0
```

l = 0

```
u = pi/2
```

u = 1.5708

```
dr1 = diff(r,t)
```

dr1 = $(-\sin(t) \quad \cos(t) \quad 1)$

```
f1 = subs(F,[x,y,z],[r(1),r(2),r(3)])
```

f1 = $(\cos(t) \quad t \quad \sin(t))$

```
nf = f1.*dr1
```

nf = $(-\cos(t)\sin(t) \quad t\cos(t) \quad \sin(t))$

```
nf1 = sum(nf)
```

nf1 = $\sin(t) - \cos(t)\sin(t) + t\cos(t)$

```
i = int(nf1,t,l,u)
```

i =

$$\frac{\pi}{2} - \frac{1}{2}$$

```
P = inline(vectorize(F(1)), 'x', 'y', 'z')
```

P =

```
     Inline function:
     P(x,y,z) = x
```

```
Q = inline(vectorize(F(2)), 'x', 'y', 'z')
```

Q =

```
     Inline function:
     Q(x,y,z) = z
```

```
R = inline(vectorize(F(3)), 'x', 'y', 'z')
```

```
R =

     Inline function:
     R(x,y,z) = y
```

```
x = linspace(0,2*pi,10);y=x;z=x
```

```
z = 1×10
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869 ···
```

```
[X,Y,Z] = meshgrid(x,y,z)
```

```
X =
X(:,:,1) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,2) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,3) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,4) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
```

```
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,5) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,6) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,7) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,8) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,9) =
```

```
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


X(:,:,10) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
Y =
Y(:,:,1) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


Y(:,:,2) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


Y(:,:,3) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
```

```
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
Y(:,:,4) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
Y(:,:,5) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
Y(:,:,6) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
Y(:,:,7) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
Y(:,:,8) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
```

```
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


Y(:,:,9) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


Y(:,:,10) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
Z =
Z(:,:,1) =

     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0


Z(:,:,2) =

    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981


Z(:,:,3) =
```

```
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963


Z(:,:,4) =

    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944


Z(:,:,5) =

    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925


Z(:,:,6) =

    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907


Z(:,:,7) =

    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
```

```
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888


Z(:,:,8) =

    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869


Z(:,:,9) =

    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851


Z(:,:,10) =

    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
U = P(X,Y,Z)
```

```
U = 
U(:,:,1) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,2) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
```

```
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,3) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,4) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,5) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,6) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
```

```
U(:,:,7) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,8) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,9) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832


U(:,:,10) =

         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
         0    0.6981    1.3963    2.0944    2.7925    3.4907    4.1888    4.8869    5.5851    6.2832
```

```
V = Q(X,Y,Z)
```

```
V =
V(:,:,1) =

     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
```

```
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0
     0     0     0     0     0     0     0     0     0     0


V(:,:,2) =

    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981


V(:,:,3) =

    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963


V(:,:,4) =

    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944


V(:,:,5) =

    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925


V(:,:,6) =
```

```
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907


V(:,:,7) =

    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888


V(:,:,8) =

    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869


V(:,:,9) =

    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851


V(:,:,10) =

    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

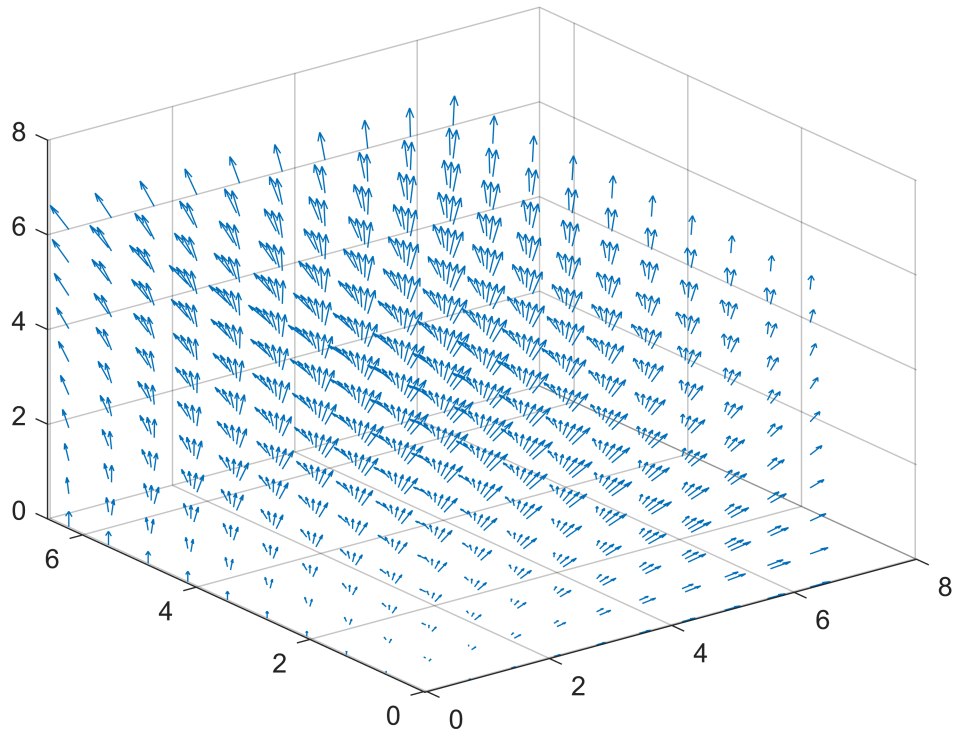
```
W = R(X,Y,Z)
```

```
W =
W(:,:,1) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,2) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,3) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,4) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,5) =

         0         0         0         0         0         0         0         0         0         0
```

```
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,6) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,7) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,8) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832


W(:,:,9) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
W(:,:,10) =

         0         0         0         0         0         0         0         0         0         0
    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981    0.6981
    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963    1.3963
    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944    2.0944
    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925    2.7925
    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907    3.4907
    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888    4.1888
    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869    4.8869
    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851    5.5851
    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832    6.2832
```

```
quiver3(X,Y,Z,U,V,W)
```



```
% name - amlan nayak
% reg no.-19BCD7143
% date-20/9/19
syms x y t m n
F = [m,n]
```

F = $\begin{pmatrix} m & n \end{pmatrix}$

```
x = cos(t)
```

x = $\cos(t)$

```
y = sin(t)
```

y = $\sin(t)$

```
dx = diff(x,t)
```

dx = $-\sin(t)$

```
dy = diff(y,t)
```

dy = $\cos(t)$

```
m = x - y
```

m = $\cos(t) - \sin(t)$

```
n =x
```

n = $\cos(t)$

```
i = int(m*dy,t,0,2*pi)
```

i = π

```
j = int(n*dx,t,0,2*pi)
```

j = 0

```
flux = i-j
```

flux = π