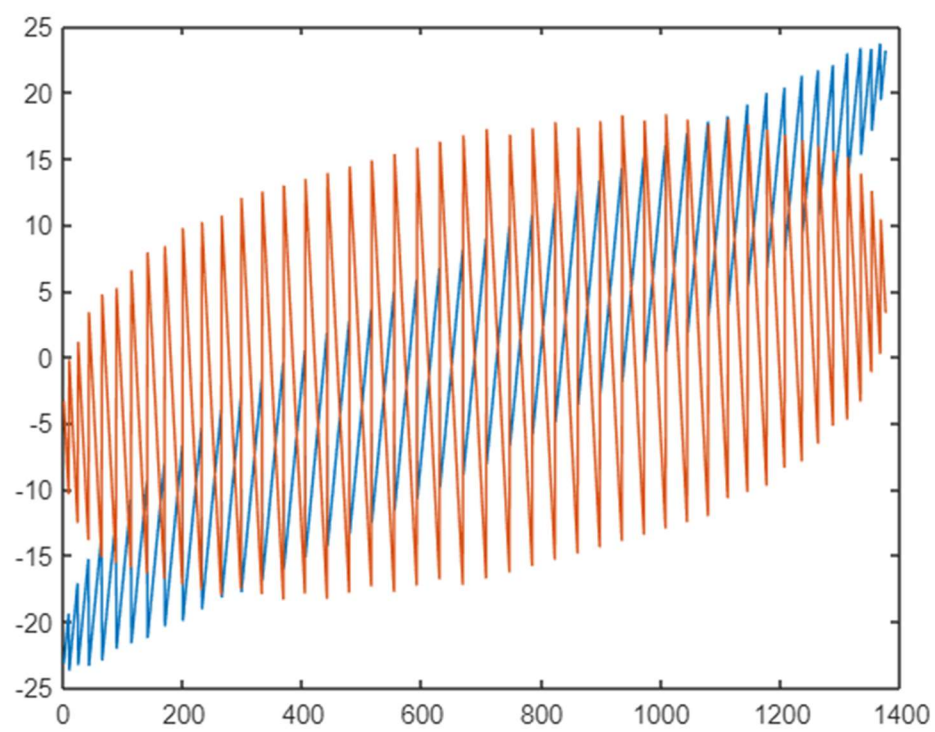


Using plot xyp:



```
bw=GetRandomEllipseImage(1);  
imagesc(bw)  
[r,c]=find(bw);  
x = r - mean(r);  
y = c - mean(c);  
[U,S,V] = svd([x,y], 'econ');  
xyp = [x y]*V;  
plot(xyp)  
imagesc(xyp)
```

```
theta=linspace(0,2*pi,1000);  
cXp = [x y]/ V  
cYp = [x y]/ V
```

```
r1 = cXp/sin(theta)' ;  
r2 = cYp/cos(theta)';
```