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Question 5

Hough Transformation

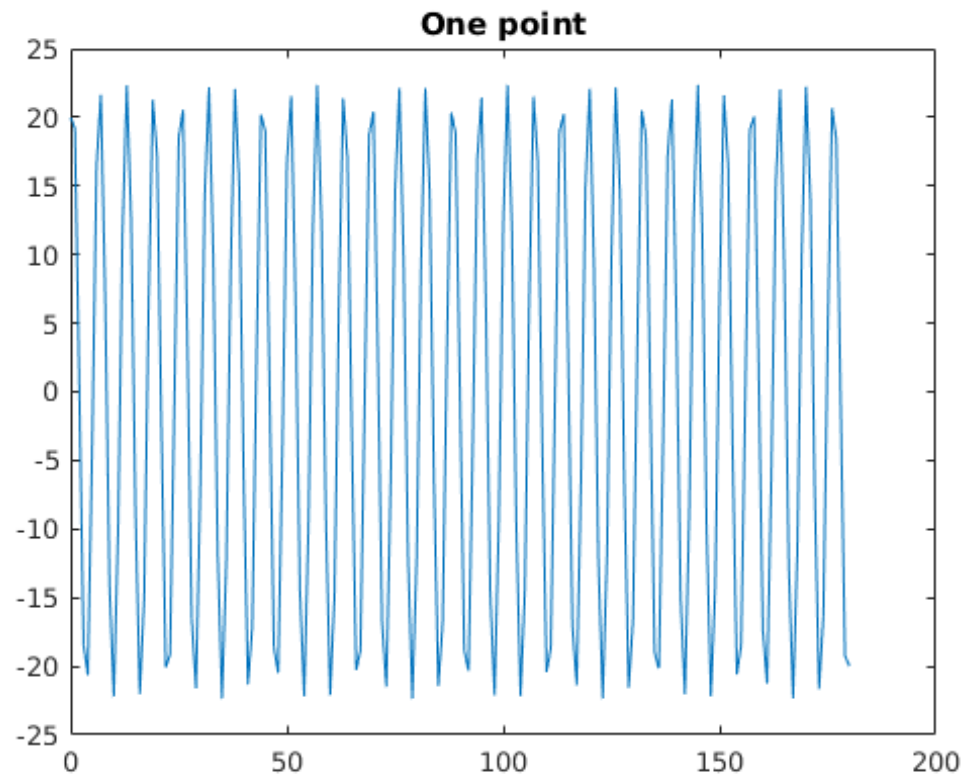
```
clc; clear all;

nPoints = 1:3;
```

A:

Draw one point transformation

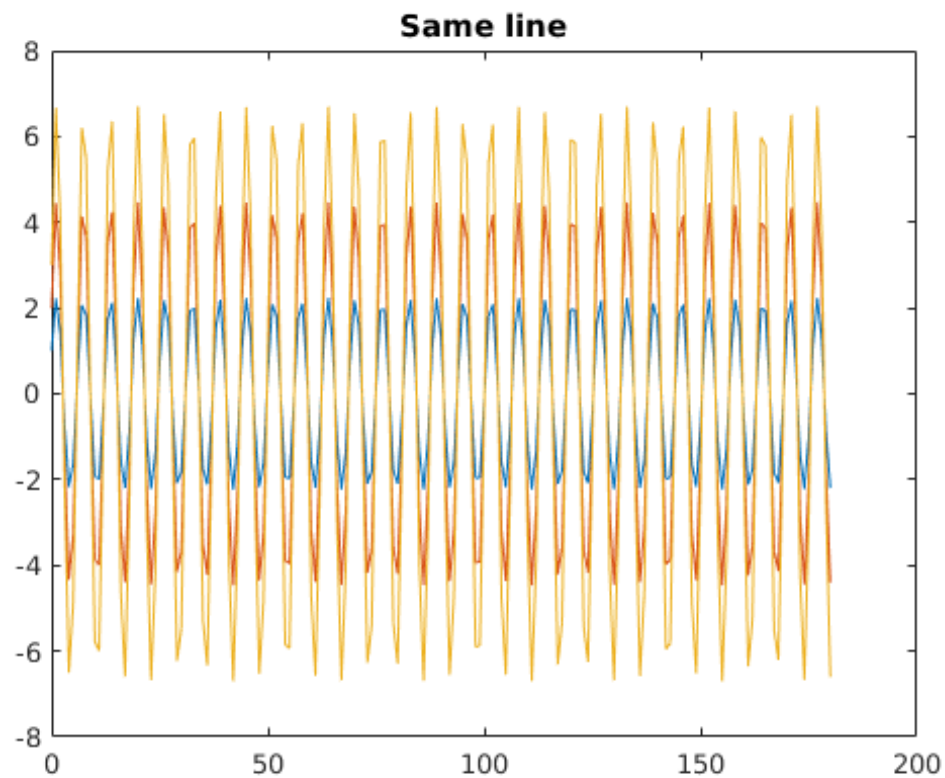
```
x = 20; y = 10;
figure('Name','One point');
houghTrans(x, y);
title('One point')
```



B:

Draw transformation of points in the same line

```
figure('Name','Same line');  
y = @(x) 2*x;  
for point = nPoints  
    houghTrans(point, y(point)); hold on  
end  
title('Same line')
```

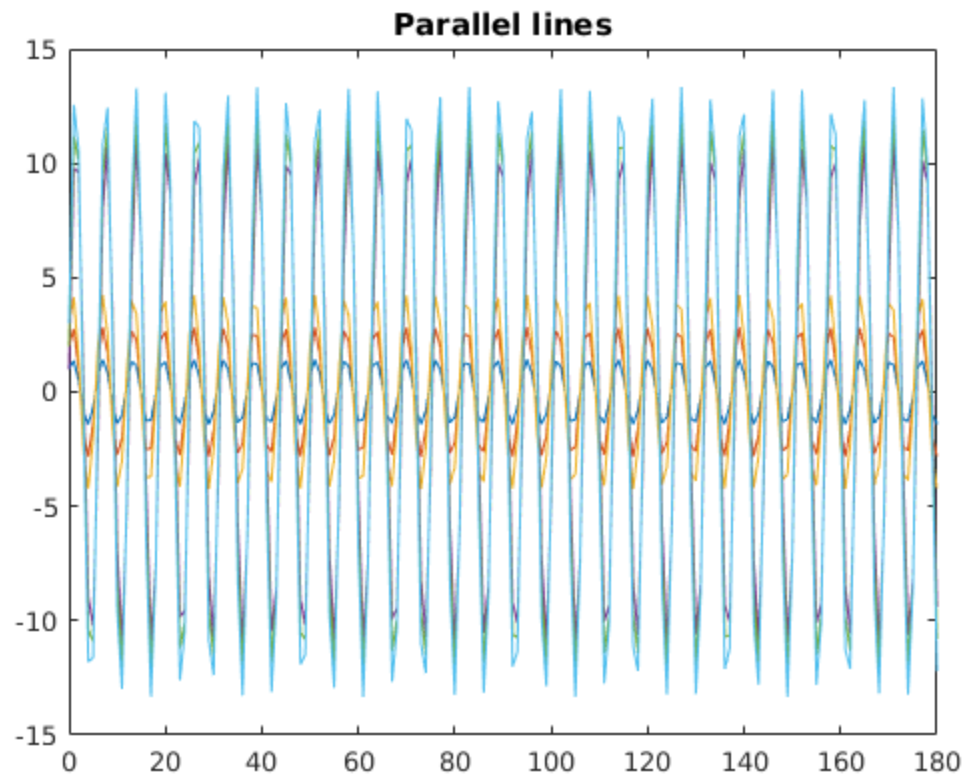


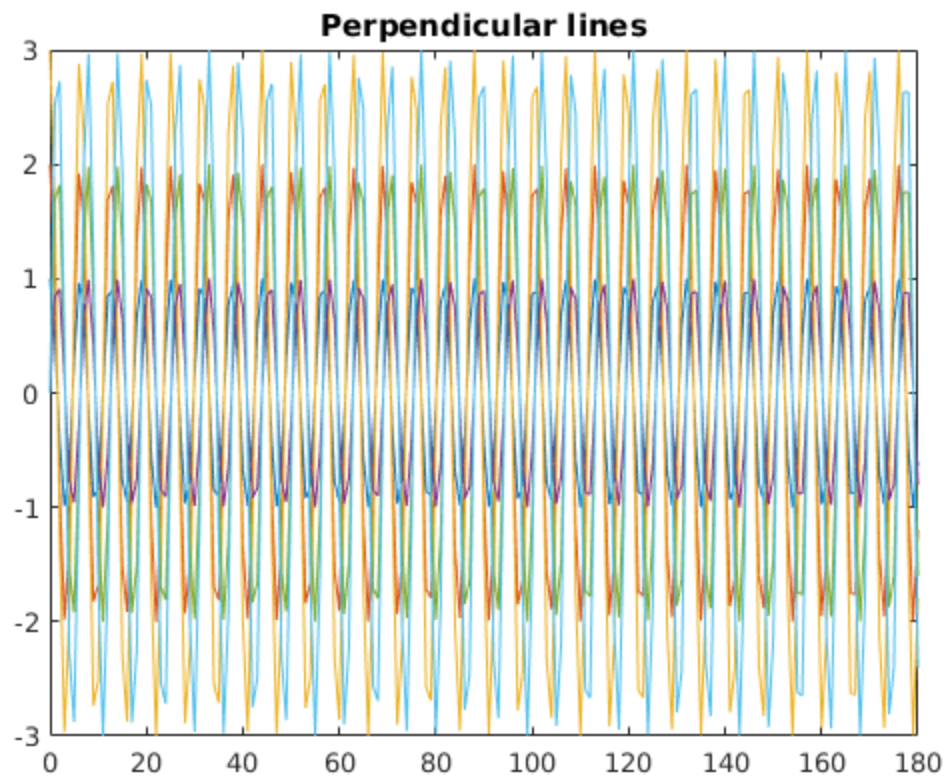
C:

Draw parallel lines transformation

```
figure('Name','Parallel lines');  
y1 = @(x) x;  
y2 = @(x) x+10;  
for point = nPoints  
    houghTrans(point, y1(point)); hold on  
end  
for point = nPoints  
    houghTrans(point, y2(point)); hold on  
end  
title('Parallel lines')
```

```
% Draw vertical lines trasformation
figure('Name','Perpendicular Lines');
for point = nPoints
    houghTrans(point, 0); hold on
end
for point = nPoints
    houghTrans(0, point); hold on
end
title('Perpendicular lines')
```





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