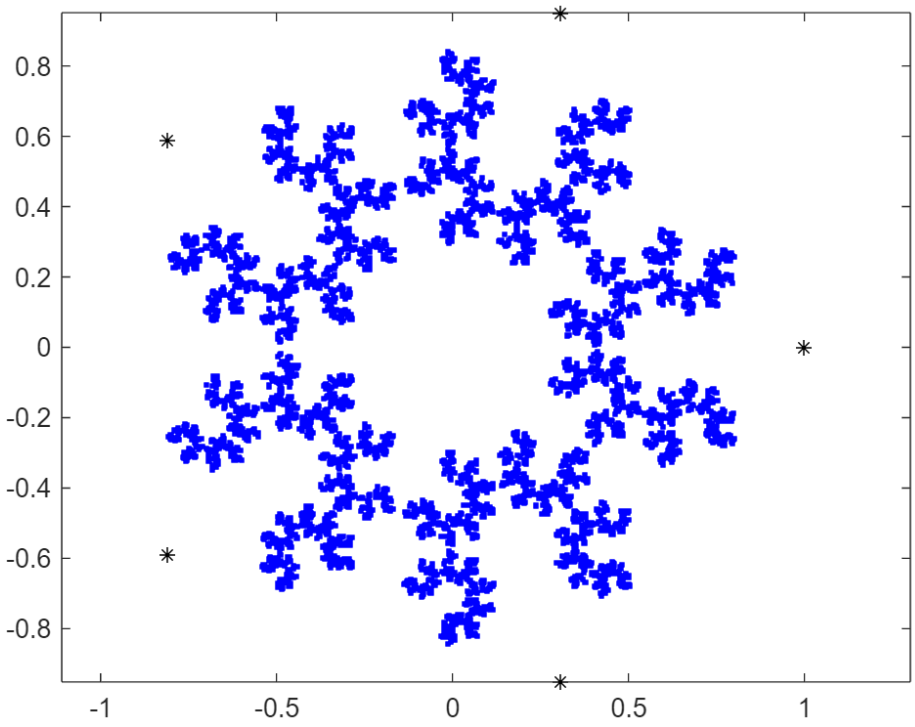
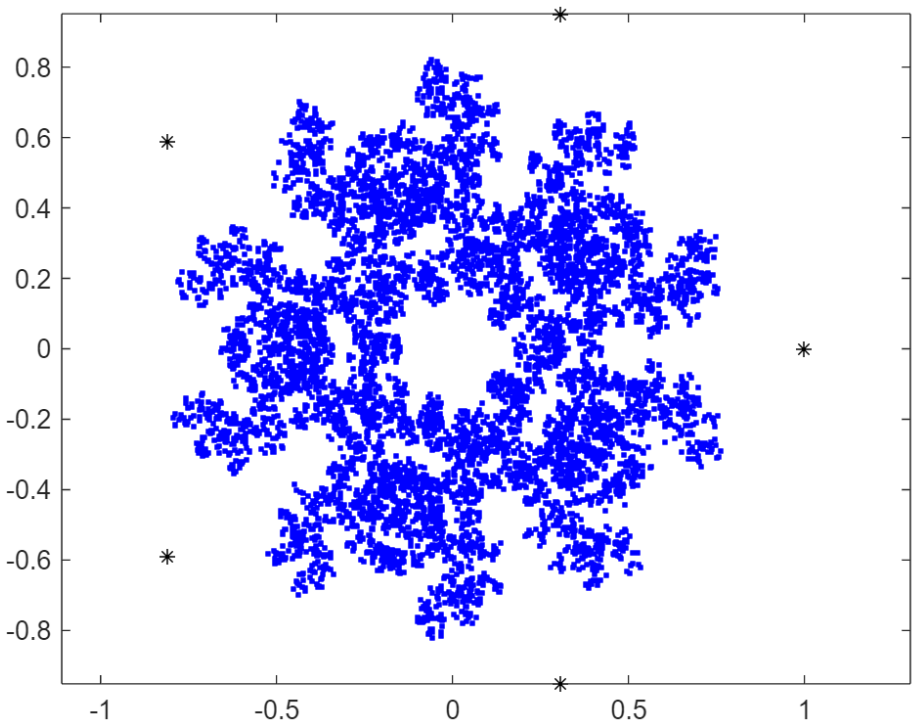
```
%% Pentagon with a skipped vertex
clear;
T=[1/2.5 0; 0 1/2.5];
t=linspace(0,2*pi,6);
t(6)=[];
v=[cos(t); sin(t)];
x(:,1)=[rand-0.5; rand-0.5];
plot(v(1,:),v(2,:),'k*',x(1,1),x(2,1),'b.');
axis equal;
hold on;
Num=10000;
k1=0;
for j=1:Num
k=randi(5);
if k~=k1
x(:,j+1)=T*(x(:,j)-v(:,k))+v(:,k);
k1=k;
else
x(:,j+1)=x(:,j);
end
end
plot(x(1,:),x(2,:),'b.');
hold off;
```




```
 %% Pentagon with a skipped vertex
clear;
T=[1/2 0; 0 1/2];
```

```
t=linspace(0,2*pi,6);
t(6)=[];
v=[cos(t); sin(t)];
x(:,1)=[rand-0.5; rand-0.5];
plot(v(1,:),v(2,:),'k*',x(1,1),x(2,1),'b.');
axis equal;
hold on;
Num=10000;
k1=0;
for j=1:Num
k=randi(5);
if k~=k1
x(:,j+1)=T*(x(:,j)-v(:,k))+v(:,k);
k1=k;
else
x(:,j+1)=x(:,j);
end
end
plot(x(1,:),x(2,:),'b.');
hold off;
```




```
 %% Pentagon with a skipped vertex
clear;
T=[1/3 0; 0 1/3];
t=linspace(0,2*pi,6);
t(6)=[];
v=[cos(t); sin(t)];
```

```
x(:,1)=[rand-0.5; rand-0.5];
plot(v(1,:),v(2,:),'k*',x(1,1),x(2,1),'b.');
axis equal;
hold on;
Num=10000;
k1=0;
for j=1:Num
k=randi(5);
if k~=k1
x(:,j+1)=T*(x(:,j)-v(:,k))+v(:,k);
k1=k;
else
x(:,j+1)=x(:,j);
end
end
plot(x(1,:),x(2,:),'b.');
hold off;
```