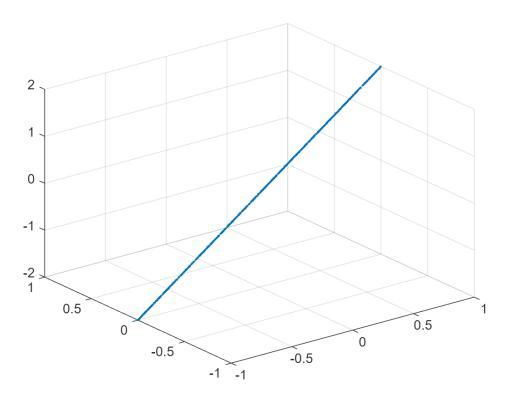
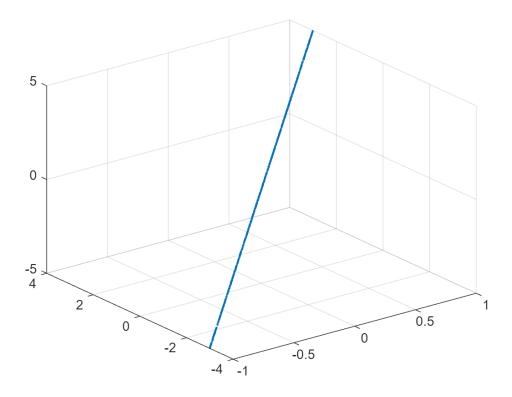
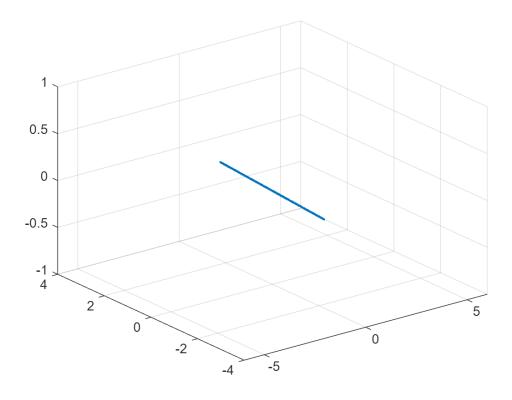
```
V = [1;0;2];
pts = [];
for i = 1:1000
    sf = -1+2*rand(1);
    pts=[pts,sf*V];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1);
```



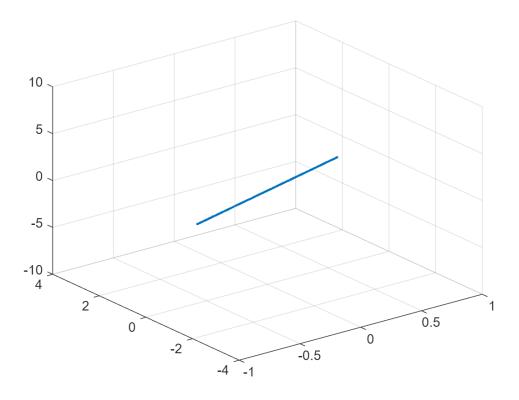
```
V = [1;3;5];
pts = [];
for i = 1:1000
    sf = -1+2*rand(1);
    pts=[pts,sf*V];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1);
```



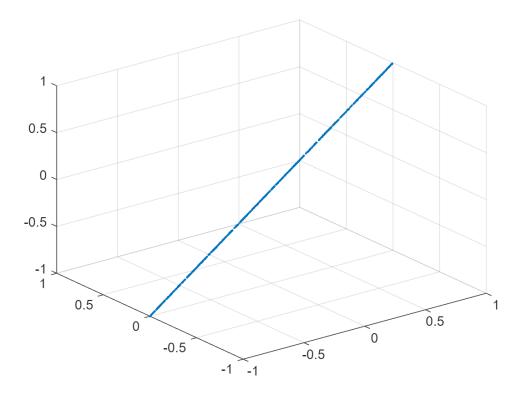
```
V = [-6;-3;1];
pts = [];
for i = 1:1000
    sf = -1+2*rand(1);
    pts=[pts,sf*V];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1);
```



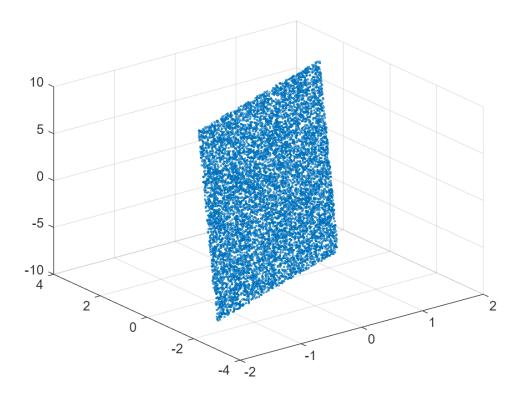
```
V = [0;-3;7];
pts = [];
for i = 1:1000
    sf = -1+2*rand(1);
    pts=[pts,sf*V];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1);
```



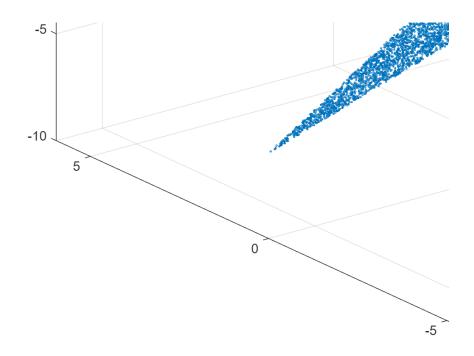
```
V = [1;0;1];
pts = [];
for i = 1:1000
    sf = -1+2*rand(1);
    pts=[pts,sf*V];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1);
```



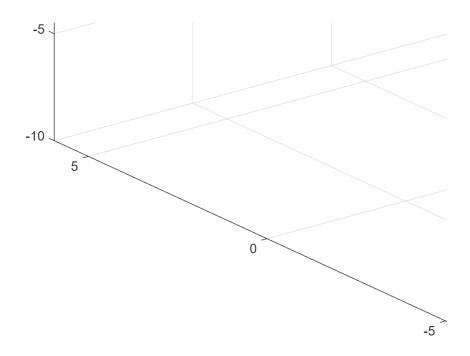
```
V1 = [1;0;2];
V2 = [1;3;5];
pts = [];
for i = 1:10000
    sf1 = -1+2*rand(1);
    sf2 = -1+2*rand(1);
    pts=[pts,sf1*V1+sf2*V2];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1.2)
```



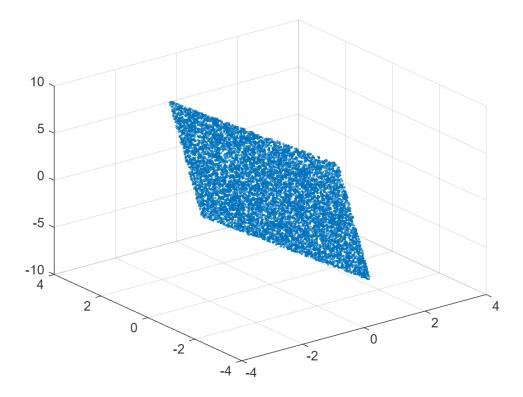
```
V1 = [-6;-3;1];
V2 = [0;-3;7];
pts = [];
for i = 1:10000
    sf1 = -1+2*rand(1);
    sf2 = -1+2*rand(1);
    pts=[pts,sf1*V1+sf2*V2];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1.2)
```



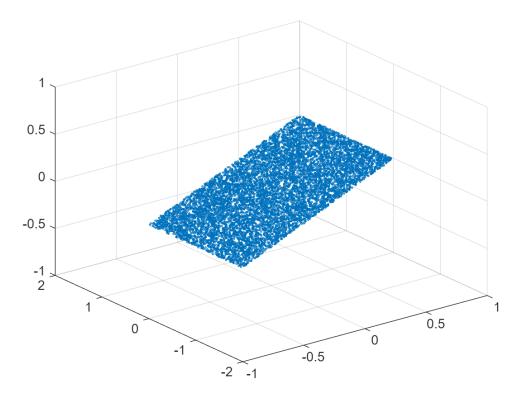
```
V1 = [2;5;1];
V2 = [1;1;-6];
pts = [];
for i = 1:10000
    sf1 = -1+2*rand(1);
    sf2 = -1+2*rand(1);
    pts=[pts,sf1*V1+sf2*V2];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1.2)
```



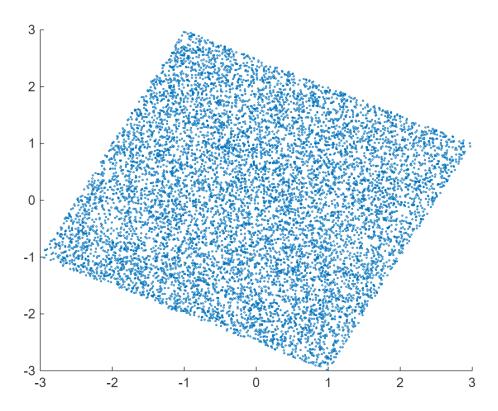
```
V1 = [1;2;3];
V2 = [-2;1;4];
pts = [];
for i = 1:10000
    sf1 = -1+2*rand(1);
    sf2 = -1+2*rand(1);
    pts=[pts,sf1*V1+sf2*V2];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1.2)
```



```
V1 = [1;1;0];
V2 = [0;1;0];
pts = [];
for i = 1:10000
    sf1 = -1+2*rand(1);
    sf2 = -1+2*rand(1);
    pts=[pts,sf1*V1+sf2*V2];
end
scatter3(pts(1,:),pts(2,:),pts(3,:),1.2)
```



```
V1 = [1;2];
V2 = [-2;1];
pts = [];
for i = 1:10000
    sf1 = -1+2*rand(1);
    sf2 = -1+2*rand(1);
    pts=[pts,sf1*V1+sf2*V2];
end
scatter(pts(1,:),pts(2,:),1.2)
```



```
V1 = [1;0];
V2 = [0;1];
pts = [];
for i = 1:10000
    sf1 = -1+2*rand(1);
    sf2 = -1+2*rand(1);
    pts=[pts,sf1*V1+sf2*V2];
end
scatter(pts(1,:),pts(2,:),1.2)
```

