```
% y <= sqrt(1 - x^2)
x = -1:0.01:1
```

x = 1×201
   -1.0000   -0.9900   -0.9800   -0.9700   -0.9600   -0.9500   -0.9400   -0.9300 ...

```
plot(x, sqrt(1 - x.^2), x, -sqrt(1 - x.^2)); hold on;

x = -2:0.01:2
```

x = 1×401
   -2.0000   -1.9900   -1.9800   -1.9700   -1.9600   -1.9500   -1.9400   -1.9300 ...

```
plot(x, sqrt(2) - x);


plot(x, zeros(size(x)));


scatter(0.5, 0.5, "x")
scatter(1, 0, "x")
scatter(-1, 0, "x")
scatter(1/sqrt(2), 1/sqrt(2), "x")

grid on
pbaspect([1 1 1])

hold off

xlim([-2.00 2.00])
ylim([-1.00 3.50])
```