```
restart :
interface(warnlevel = 0) :          # Maple 12
with(plots) :
```

A plot the following set of complex number using polar coordinates.

$$\{e^{i2\pi}, e^{i\pi}, e^{\pm i\pi/2}, e^{\pm i\pi/4}, \} = \{1, -1, \pm i, \frac{1 \pm i}{\sqrt{2}}\}$$

```
L := [e^(I·2π), e^(I·π), e^(I·π/2), e^(-I·π/2), e^(I·π/4), e^(-I·π/4)]:
p1 := complexplot(L[1], x = -1 ..1, style = point, symbol = solidcircle, symbolsize = 18, color = blue) :
p2 := complexplot(L[2], x = -1 ..1, style = point, symbol = solidcircle, symbolsize = 18, color = red) :
p3 := complexplot(L[3], x = -1 ..1, style = point, symbol = solidcircle, symbolsize = 18, color = black) :
p4 := complexplot(L[4], x = -1 ..1, style = point, symbol = solidcircle, symbolsize = 18, color = brown) :
p5 := complexplot(L[5], x = -1 ..1, style = point, symbol = solidcircle, symbolsize = 18, color = magenta) :
p6 := complexplot(L[6], x = -1 ..1, style = point, symbol = solidcircle, symbolsize = 18, color = green) :
display([p1, p2, p3, p4, p5, p6, ], labels = ["R", " "], axiscoordinates = polar);
```