

CHAPTER 8 - GRAPHING PARAMETRIC EQUATIONS

TI-84 Plus

Draw the parametric equation: $\{(x, y) : x = \cos t, y = \sin t, 0^\circ \leq t \leq 360^\circ\}$

Step 1 Press **MODE** and ensure your calculator is in **Degree** mode and **Parametric** mode.

```
NORMAL SCI ENG
FLOAT 0123456789
RADIAN DEGREE
FUNC PAR POL SEQ
CONNECTED DOT
SEQUENTIAL SIMUL
REAL a+bi re^θi
FULL HORIZ G-T
SETCLOCK 24/03/09 12:57PM
```

Step 2 Press **WINDOW**. Set **Tmin** to 0, **Tmax** to 360, **TStep** to 2, **Xmin** to -3, **Xmax** to 3, **Ymin** to -2, and **Ymax** to 2.

```
WINDOW
Tmin=0
Tmax=360
Tstep=2
Xmin=-3
Xmax=3
Xscl=1
Ymin=-2
```

Step 3 Press **Y=** and enter $\cos t$ into **X_{1T}** and $\sin t$ into **Y_{1T}**.

```
Y1T=cos(T)
Y2T=
Y3T=
Y4T=
```

Step 4 Press **GRAPH** to draw the parametric equation.

