

## Polar aplet

### About the polar aplet

This chapter is to demonstrate how similar the Polar aplet is the Function aplet.

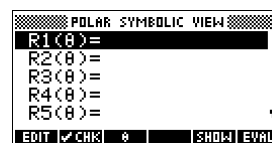
### Getting started with the polar aplet

#### Open the Polar aplet

1. Open the Polar aplet.

Select Polar  
 RESET  
 START

Like the Function aplet, the Polar aplet opens in the Symbolic view.



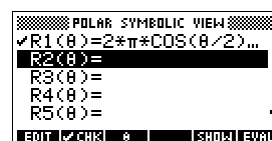
#### Define the expression

2. Define the polar equation  $r = 2\pi\cos(\theta/2)\cos(\theta)^2$ .

In the Symbolic view of the Polar aplet, highlight a line and enter the expression.

2     
  2

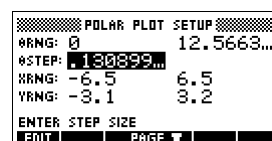
*Note: Ensure the function is checked.*



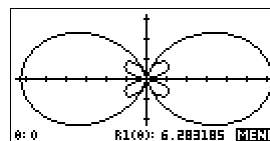
#### Plot the expression

3. Plot the expression. *Note: Reset the default plot settings.*

SETUP-PLOT  
 CLEAR  
 4   OK



PLOT

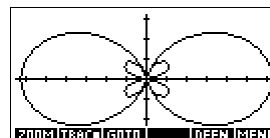


## Explore the graph

4. Display the Plot view menu key labels.

MENU

The Plot view options available are the same as those found in the Function applet. See “Exploring the graph” on page 2-42 for further information.



## Display the numbers

5. Display the table of values  $\theta$  for and  $R1$ .

NUM

The Numeric view options available are the same as those found in the Function applet. See “Exploring the table of numbers” on page 2-52 for further information.

$\theta$	R1		
0	6.283185		
.1	6.212789		
.2	6.005094		
.3	5.670069		
.4	5.224109		
.5	4.68857		