Subject: Create curves
Posted by g.nacarts on Fri, 16 Oct 2015 13:41:02 GMT
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Hi

I created an ellipsoid shape as follows

```
NX=128
NY=128
Ellipxe = fltarr(NX,NY)

for i=0L, NX-1 do begin
  for j=0L, NY-1 do begin
       if (0.1*(j-50)^2.+0.23*(i-95)^2. LT 100) then begin
    Ellipse[i,j] = 10.
 endif
  endfor
endfor
tvscl, Ellipse
```

I wanted to change the direction of the ellipse to be diagonal (i.e. not plotted vertically). Does anyone knows how to do that?

Also I found that the bean curve in Cartesian coordinates has the following form:

(x^2+y^2)^2 = x^3+y^3

I tried the following but it doesn't work

```
NX=128
NY=128
Bean_curve = fltarr(NX,NY)

for i=0L, NX-1 do begin
  for j=0L, NY-1 do begin
       if ((0.1*(j)^2.+0.23*(i)^2.)^2. EQ (0.1*(j)^3.+0.23*(i)^3.)) then begin
    Bean_Curve[i,j] = 10.
 endif
  endfor
endfor

tvscl, bean_Curve
```

Can anyone help with this?