
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
```

```
tvscf, Ellipse
```

I wanted to change the direction of the ellipse to be diagonal (i.e. not plotted vertically). Does anyone know 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
```

```
tvscf, bean_Curve
```

Can anyone help with this?
