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Subject: Circle drawing request.  
Posted by [D.Kennedy](#) on Tue, 28 Jan 1997 08:00:00 GMT  
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This must be a FAQ - anyone got a good circle drawing sub-routine?

Input - x, y, radius

Output - [x,y] vectors for POLYFILL etc.

I have been using one (shown below) but I find it produces fine lines shooting off to small y values from the left and right edges of each circle. And my fiddling with it has made it worse I'm afraid.

```
FUNCTION CIRCLE, xcenter, ycenter, radius
; Emailed by Dfanning 27th Jan
```

```
step = (radius/24.0)
```

```
x = FLTARR(25)
```

```
y = FLTARR(25)
```

```
; Construct a circle
```

```
FOR j=0,24 DO BEGIN
```

```
  x(j) = j*step
```

```
  y(j) = SQRT(radius^2 - x(j)^2)
```

```
ENDFOR
```

```
x = [x, Reverse(x)]
```

```
y = [y, -Reverse(y)]
```

```
x = [-Reverse(x), x]
```

```
y = [y,y]
```

```
; Center the circle at the specified coordinates.
```

```
x = x + xcenter
```

```
y = y + ycenter
```

```
points = FLTARR(2, 100)
```

```
points(0,*) = x
```

```
points(1,*) = y
```

```
RETURN, points
```

```
END
```

```
--
```

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