In [53]:
```
from sympy import *
from sympy.plotting import (plot, plot_parametric)
```

#1 Maximize and Minimize area of wire shapes

In [58]:
```
e wire should be divided so that the wire length of the square is" ,mnX, "cm 
e wire should be divided so that the wire length of the square is 0 cm and the
```

```
So that the total area enclosed by the two is a minimum, the wire should be
divided so that the wire length of the square is [120/(pi + 4)] cm and wire
length of the circle is 30 - [120/(pi + 4)] cm.
So that the total area enclosed by the two is a maximum, the wire should be
divided so that the wire length of the square is 0 cm and the wire length o
f the circle is 30 cm.
```

#2 Maximum and minimum percent error

In [ ]:
```
```

#3a Initial Value Problem

In [ ]:
```
```

#3b Boundary Value Problem

In [ ]:
```
```