

Square in Postscript

```
/n 6 def
/a 360 n div def % a = 60
/b a 2 div def % b = 30
/r 100 def
```

```

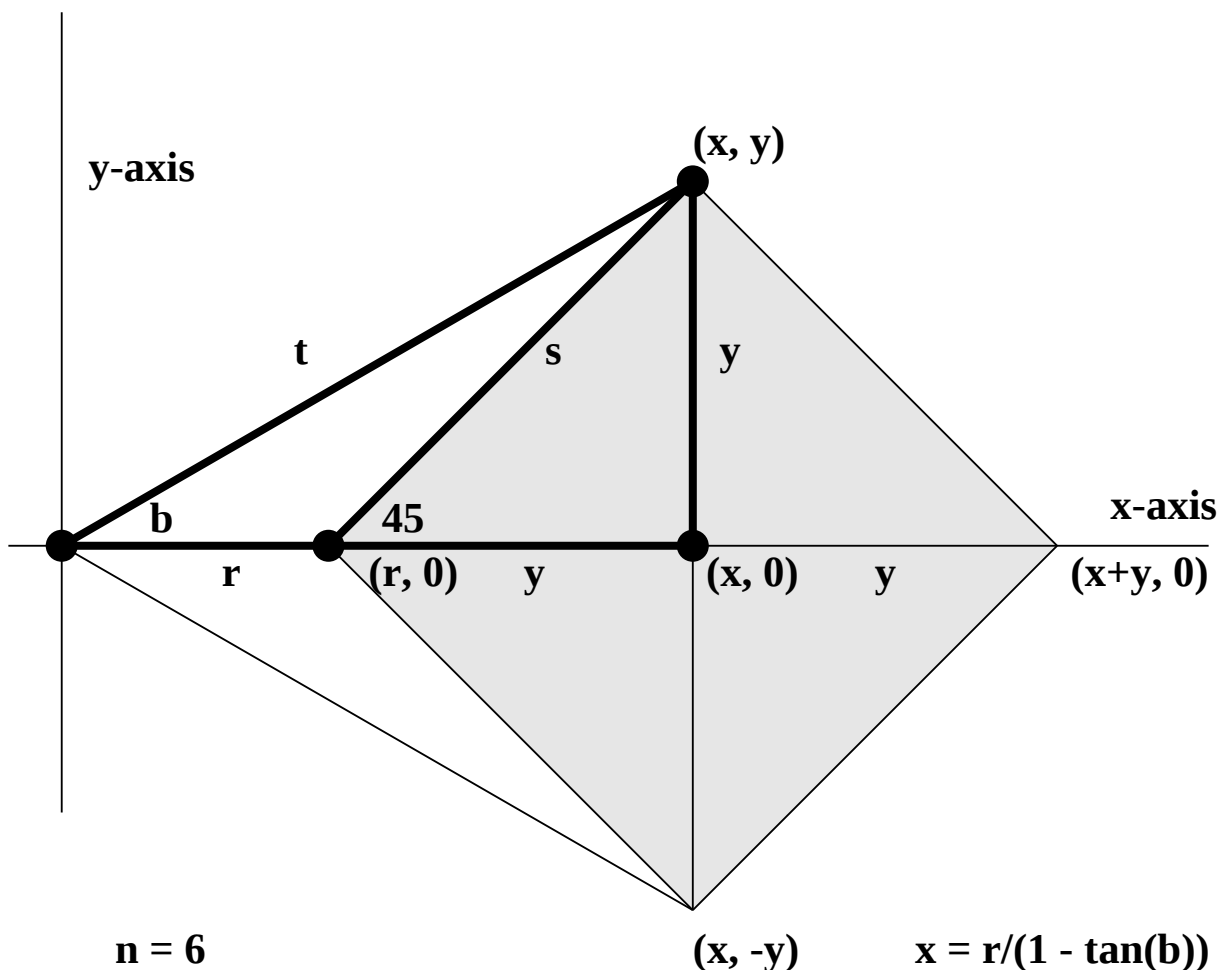
/tanb b sin b cos div def
/x r 1 tanb sub div def
/y x tanb mul def
/s 2 sqrt y mul def
/t y b sin div def

```

```

/square {
  newpath
  r 0 moveto
  x y lineto
  x y add 0 lineto
  x y neg lineto
  closepath
} def
100 200 translate
square

```



n = 6
a = 360/n = 60
a = 360/n = 60
b = a/2 = 30

$$\begin{aligned} \mathbf{x} &= \mathbf{r}/(1 - \tan(\mathbf{b})) \\ \mathbf{y} &= \mathbf{x} \tan(\mathbf{b}) \\ \mathbf{x} &= \mathbf{y} + \mathbf{r} \\ \mathbf{s} &= \mathbf{y} \sqrt{2} \\ \mathbf{t} &= \mathbf{y}/\sin(\mathbf{b}) \end{aligned}$$