

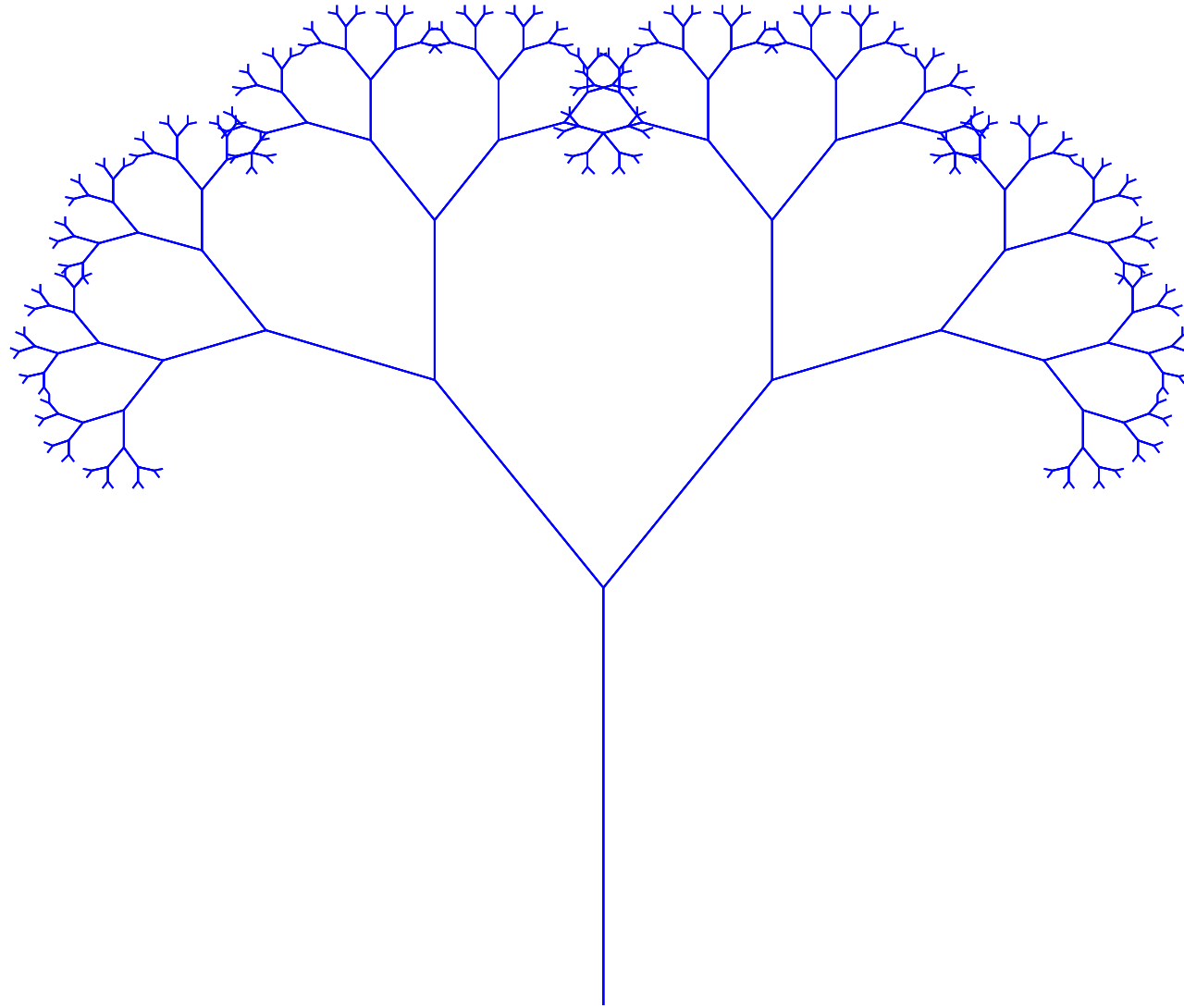
```
points:=matrix(0,2)
```

```
scale:= $\frac{2}{1+\sqrt{5}}$ =0.618
```

```
split_angle:= $\frac{\pi}{5}$ 
```

```
tree(x,y,length,angle):=
  x2:=x+length*cos(angle)
  y2:=y+length*sin(angle)
  if length>0.25
    points:=stack(points,[x y],tree(x2,y2,length*scale,angle+split_angle),[x y],tree(x2,y2,length*scale,angle-split_angle),[x y])
  else
    points:=stack(points,[x y],[x2 y2],[x y])
  points
```

```
plot:=tree(0,0,10, $\frac{\pi}{2}$ )  length(plot)=3066
```



plot