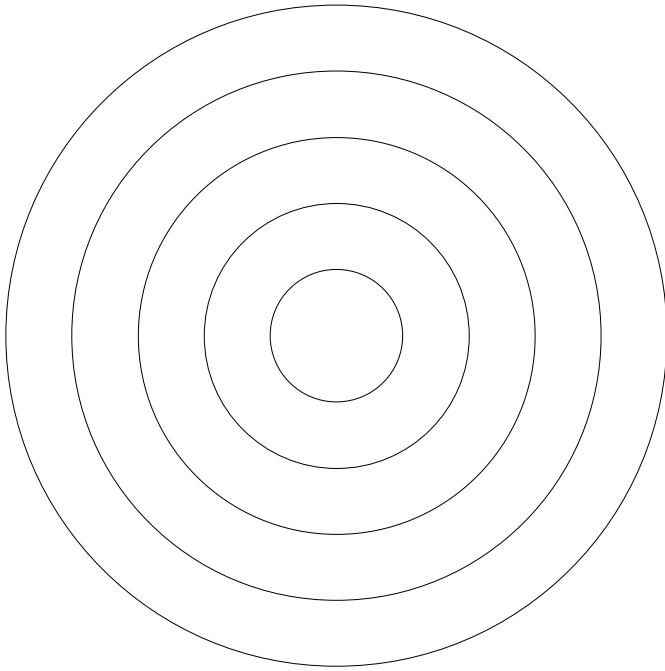


# Jeremy — PS 5 — 2025-02-04

## *EIWL3* Sections 14 and 17

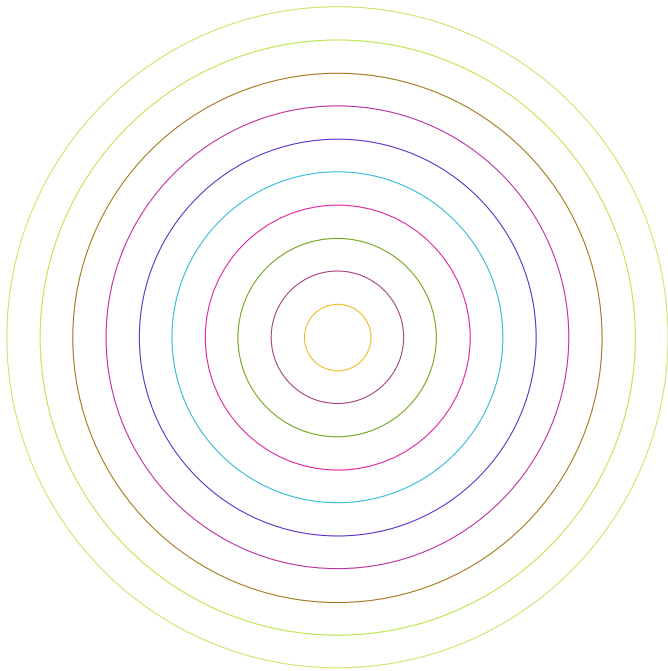
```
In[77]:= Graphics[Table[Circle[{0, 0}, r], {r, 1, 5}]]  
Out[77]=
```



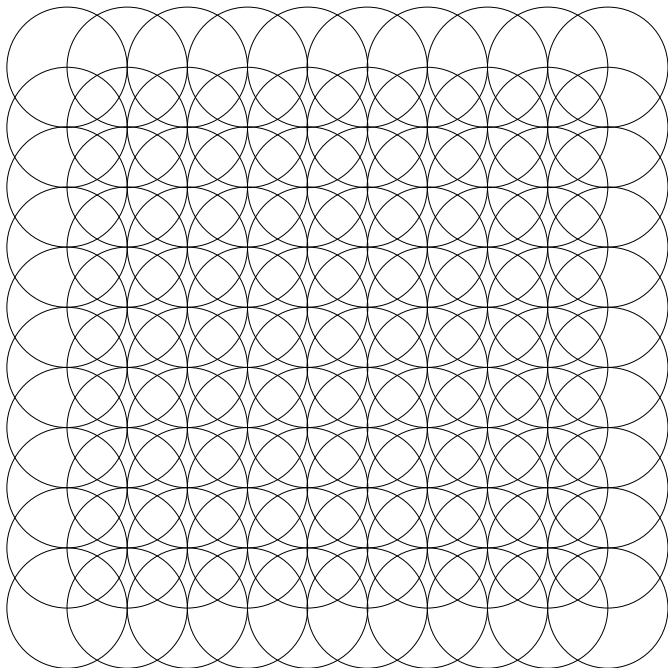
Perfect. Better  
than mine, actually.  
When I was grading, I  
discovered I had made  
a couple of mistakes.

8/8

```
In[78]:= Graphics[Table[Style[Circle[{0, 0}, r], RandomColor[]], {r, 10}]]  
Out[78]=
```

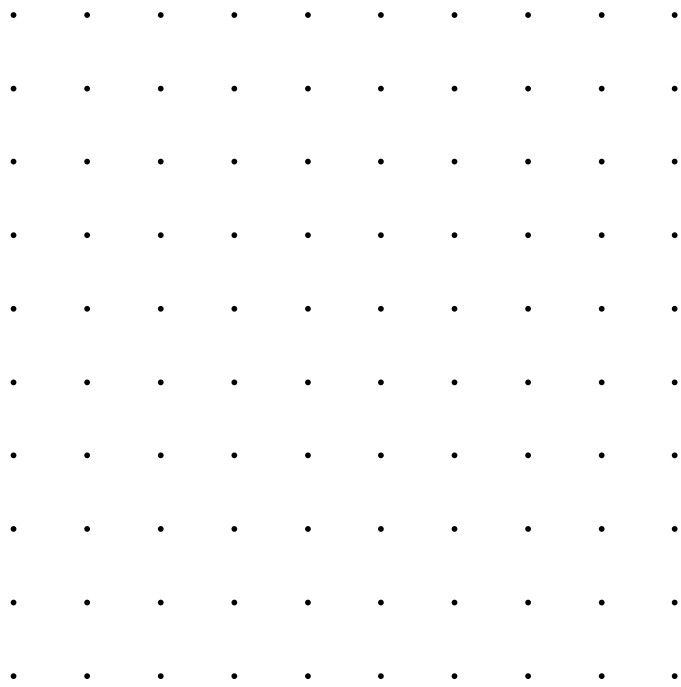


```
In[79]:= Graphics[Table[Circle[{x, y}, 1], {x, 10}, {y, 10}]]  
Out[79]=
```



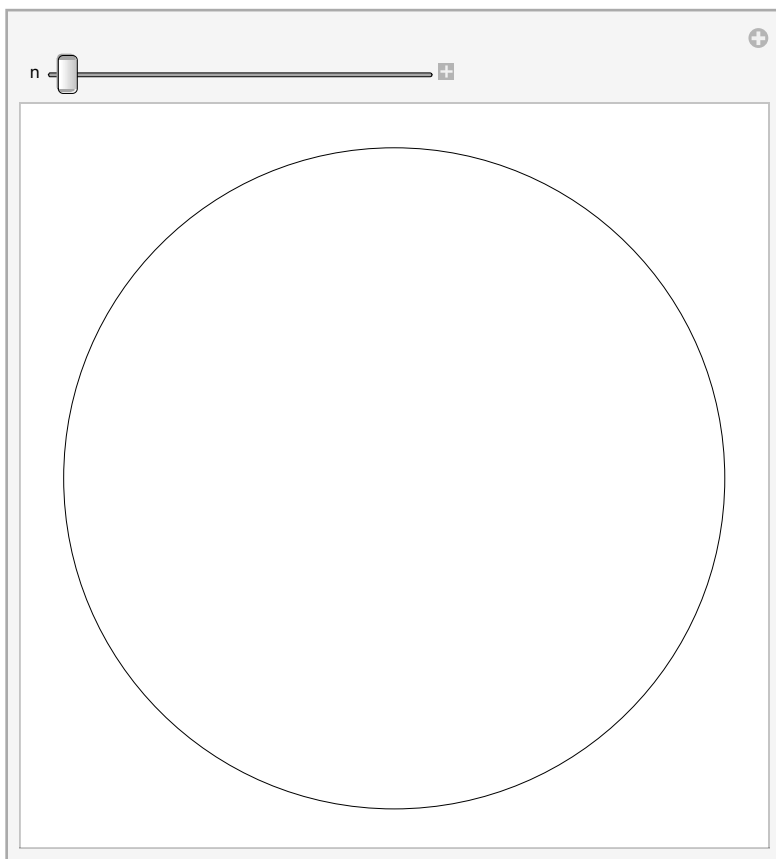
```
In[80]:= Graphics[Table[Point[{x, y}], {x, 10}, {y, 10}]]
```

```
Out[80]=
```



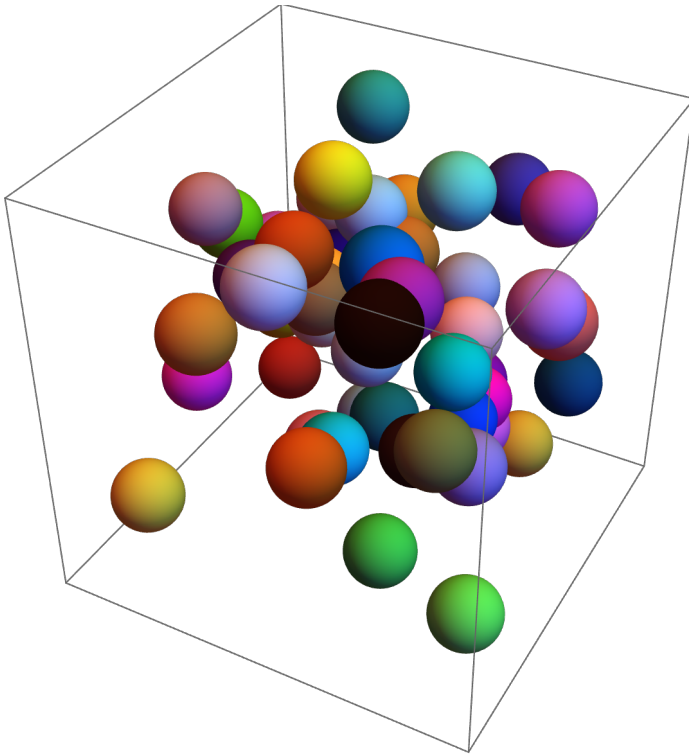
```
In[81]:= Manipulate[Graphics[Table[Circle[{0, 0}, r], {r, n}]], {n, 1, 20}]
```

Out[81]=



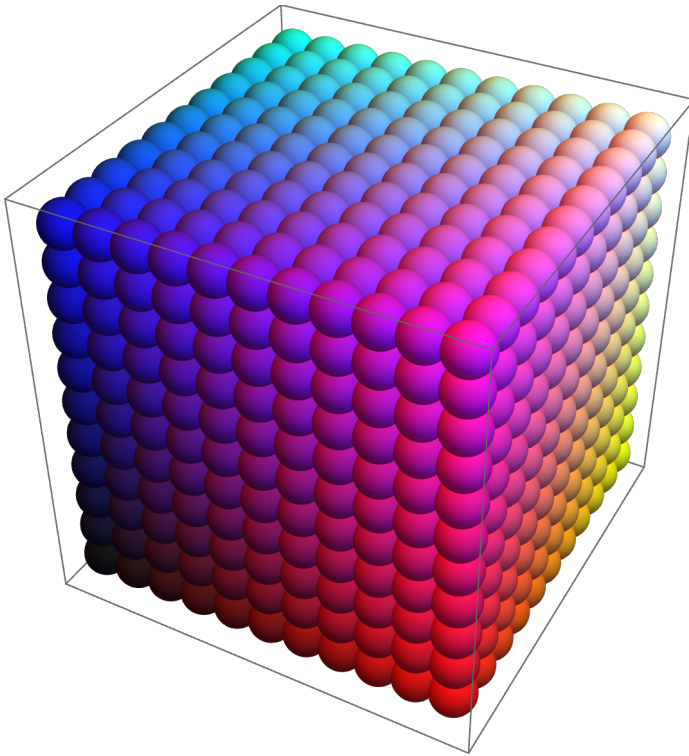
```
In[82]:= Graphics3D[  
  Table[Style[Sphere[{RandomInteger[10], RandomInteger[10], RandomInteger[10]}],  
    RandomColor[], 50]]
```

Out[82]=



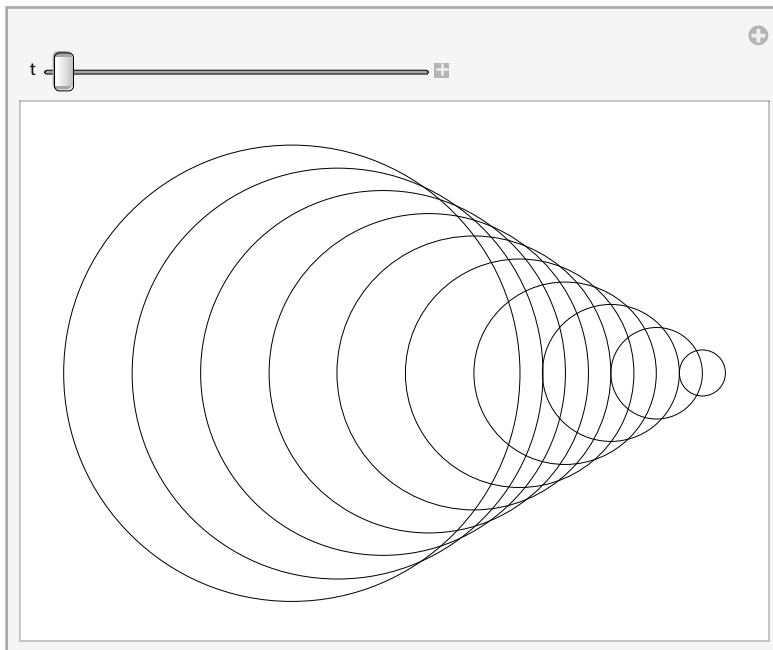
```
In[83]:= Graphics3D[Table[Style[Sphere[{x, y, z}, 0.6], RGBColor[x / 11, y / 11, z / 11]],  
  {x, 11}, {y, 11}, {z, 11}]]
```

Out[83]=



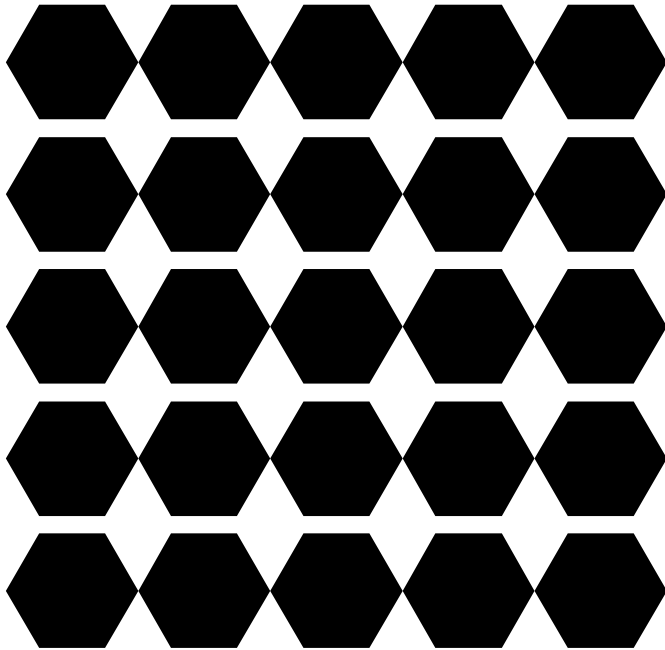
```
In[84]:= Manipulate[Graphics[Table[Circle[{t * x, 0}, x], {x, 10}]], {t, -2, 2}]
```

Out[84]=



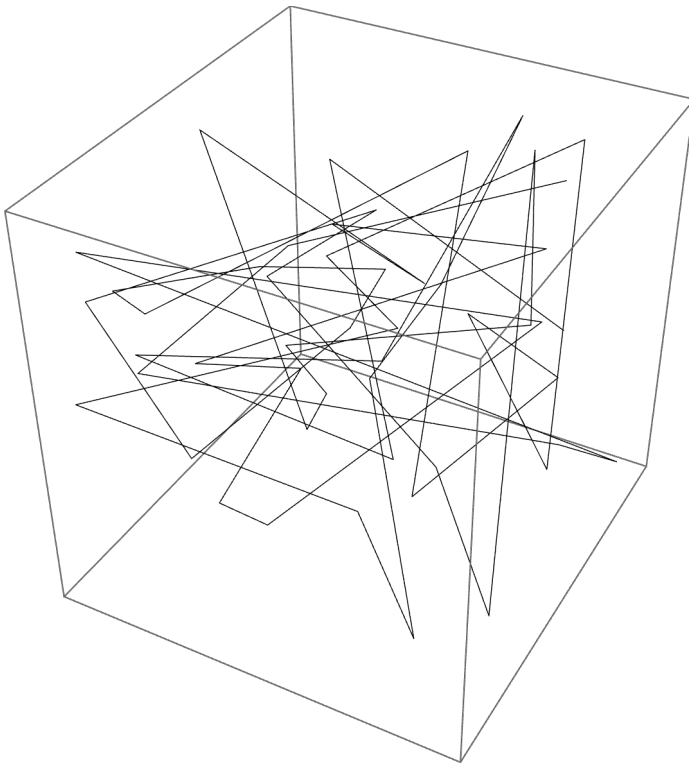
```
In[85]:= Graphics[Table[RegularPolygon[{x, y}, 1 / 2, 6], {x, 5}, {y, 5}]]
```

```
Out[85]=
```



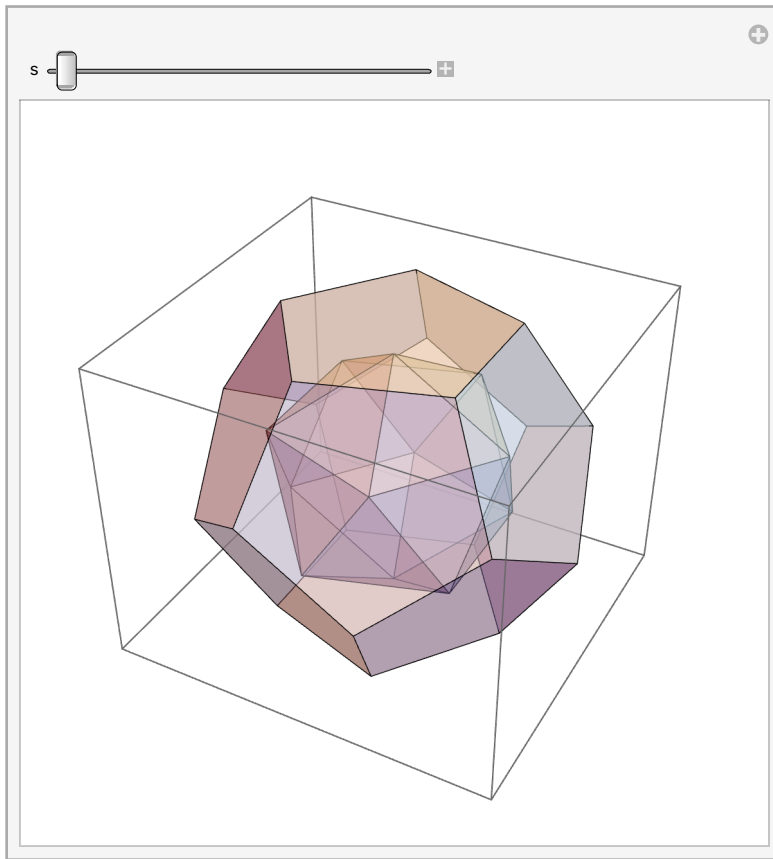
```
In[86]:= Graphics3D[  
  Line[Table[{RandomInteger[50], RandomInteger[50], RandomInteger[50]}, 50]]]
```

```
Out[86]=
```



```
In[87]:= Manipulate[Graphics3D[{Style[Icosahedron[{0, 0, 0}, s], Opacity[0.5]],
  Style[Dodecahedron[{0, 0, 0}, 1], Opacity[0.5]]}], {s, 1, 2}]
```

Out[87]=



```
In[88]:= UnitConvert[  ☒, "Kilograms"]
```

Out[88]=

2.04117 kg

```
In[89]:= UnitConvert[  ☒,   ☒
```

Out[89]=

96.963 km/h

```
In[90]:= UnitConvert[  ☒ ["Height"], "Miles"]
```

Out[90]=

0.205052 mi

```
In[91]:=   ☒ ["Elevation"] /    ☒ ["Height"]
```

Out[91]=

26.8147



```
In[92]:= Earth PLANET ... ☒ ["Mass"] / Moon PLANETARY MOON ... ☒ ["Mass"]
```

```
Out[92]=  
81.3
```

```
In[93]:= CurrencyConvert[ ☒, "USDollars"]
```

```
Out[93]=  
$16.44
```

```
In[94]:= UnitConvert[  
   ... ☒ +  ... ☒ +  ... ☒ +  ... ☒, "Kilograms"]
```

```
Out[94]=  
305.353 kg
```

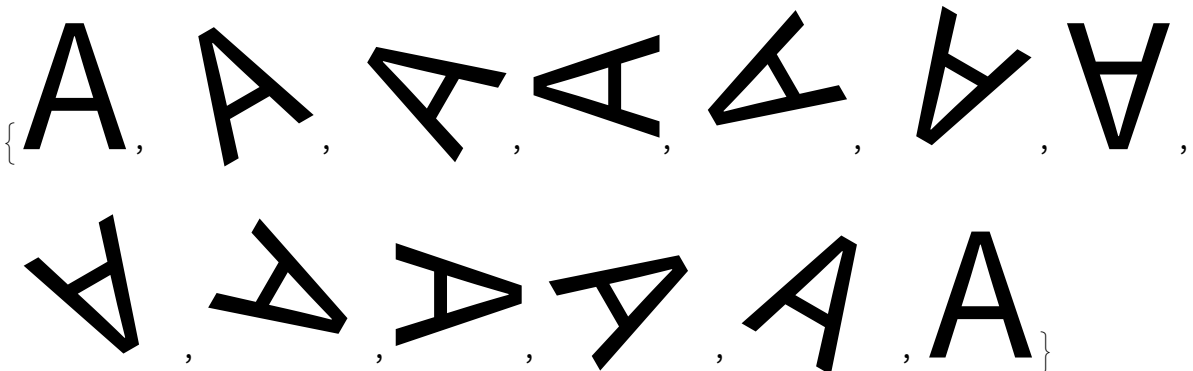
```
In[95]:= UnitConvert[{Mercury PLANET ☒ ["DistanceFromEarth"],  
  Venus PLANET ☒ ["DistanceFromEarth"], Earth PLANET ... ☒ ["DistanceFromEarth"],  
  Mars PLANET ☒ ["DistanceFromEarth"], Jupiter PLANET ☒ ["DistanceFromEarth"],  
  Saturn PLANET ☒ ["DistanceFromEarth"], Uranus PLANET ☒ ["DistanceFromEarth"],  
  Neptune PLANET ☒ ["DistanceFromEarth"]}, "LightMinutes"]
```


```
Out[95]=  
{11.4193 light minutes, 3.66369 light minutes,  
  0. light minutes, 6.19712 light minutes, 39.2376 light minutes,  
  87.3815 light minutes, 162.485 light minutes, 255.371 light minutes}
```

```
In[96]:= Rotate["hello", 180 Degree]
```

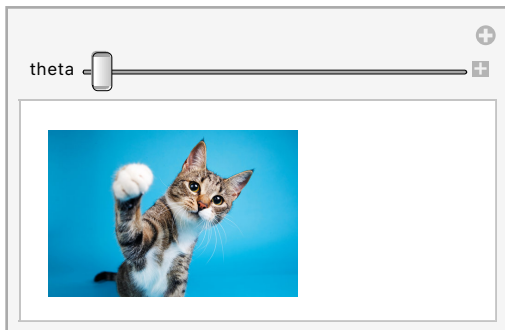
```
Out[96]=  
oɹɹəɥ
```

```
In[97]:= Table[Rotate[Style["A", 100], n Degree], {n, 0, 360, 30}]
```

```
Out[97]=  

```

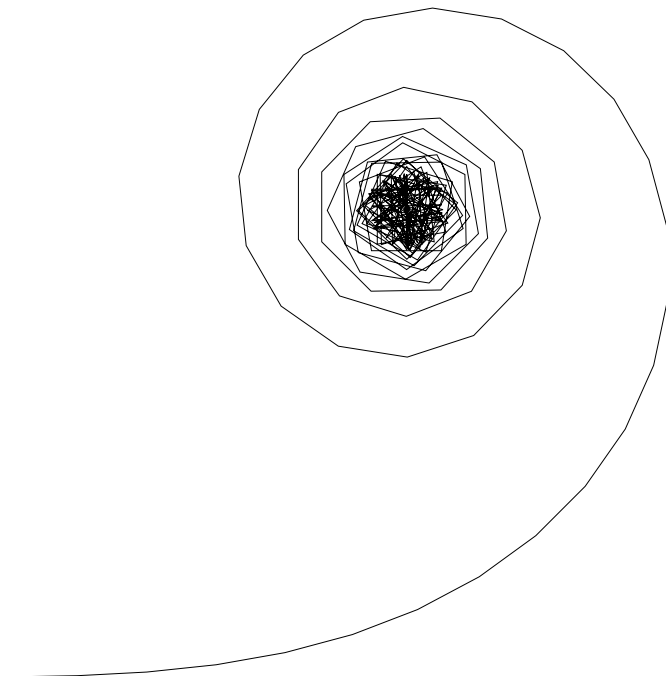
```
In[98]:= Manipulate[Rotate[, theta Degree], {theta, 0, 180}]
```

Out[98]=



```
In[99]:= Graphics[Line[AnglePath[Table[angle Degree, {angle, 180}]]]]
```

Out[99]=



```
In[100]:= Manipulate[Graphics[Line[AnglePath[Table[n Degree, 100]]]], {n, 0, 360}]
```

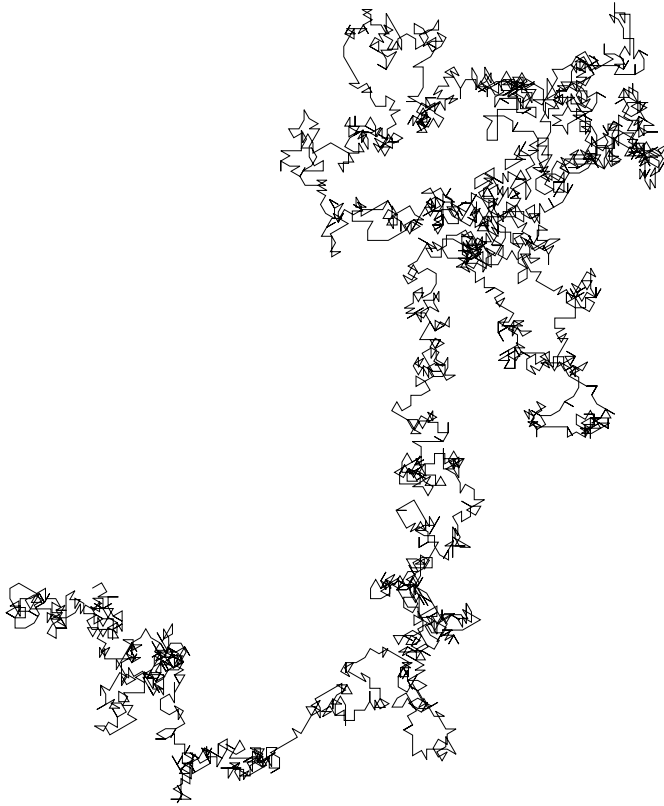
Out[100]=



In[101]:=

```
Graphics[Line[AnglePath[Table[Part[IntegerDigits[2^10 000], n] * 30 Degree,  
    {n, Length[IntegerDigits[2^10 000]]}]]]]]
```

Out[101]=



In[102]:=

In[103]:=

In[104]:=