

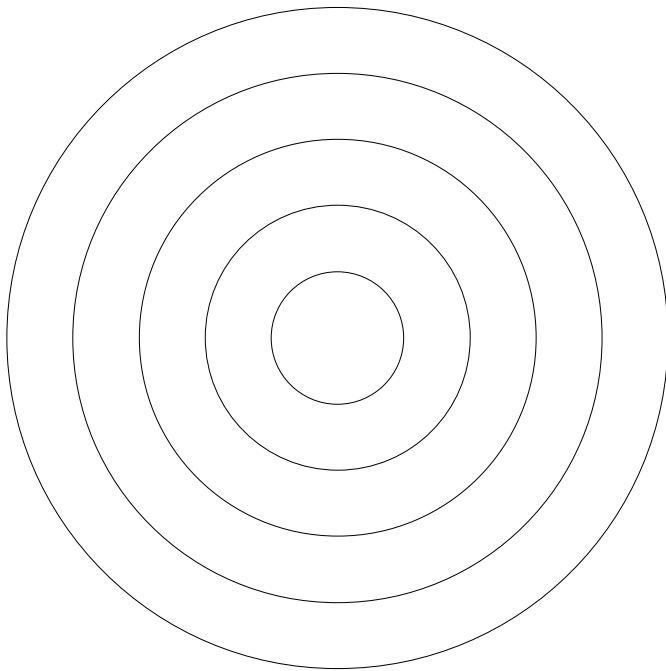
Walker — PS 5 — 2025-02-04

EIWL3 Sections 14 and 17

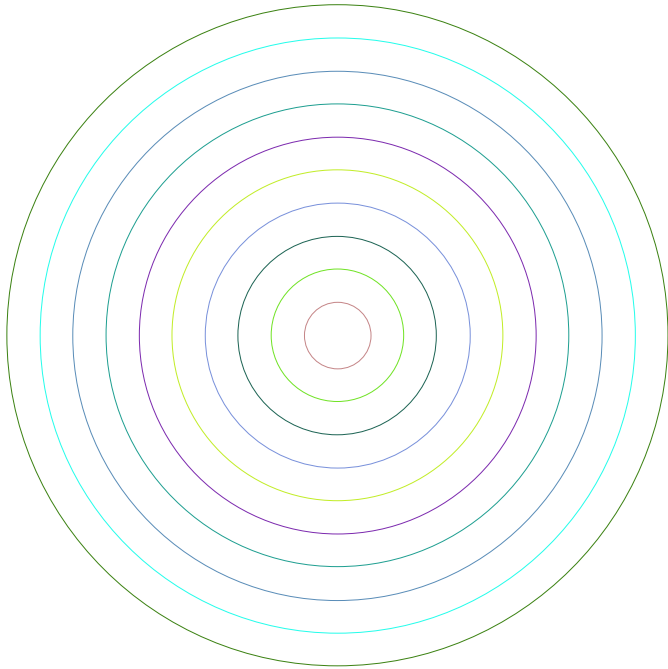
Section 14

In[26]:= **Graphics**[**Table**[**Circle**[{0, 0}, r], {r, 5}]]

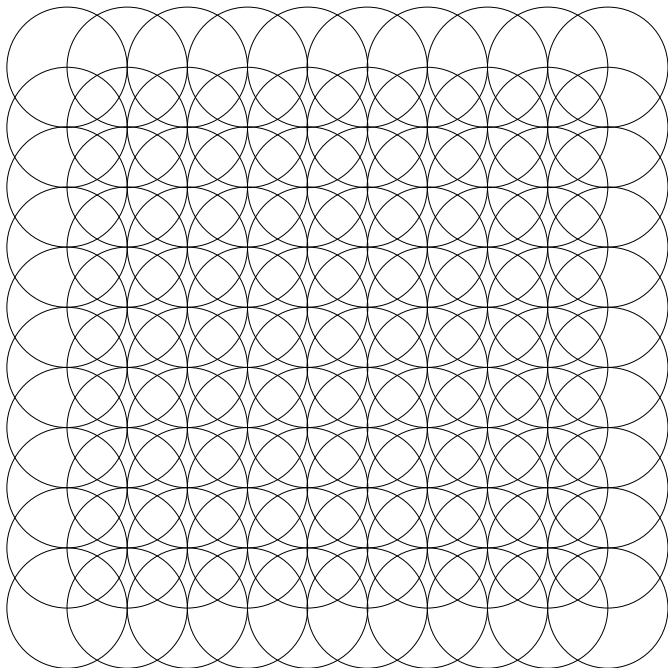
Out[26]=



```
In[27]:= Graphics[Table[Style[Circle[{0, 0}, r], RandomColor[]], {r, 10}]]  
Out[27]=
```

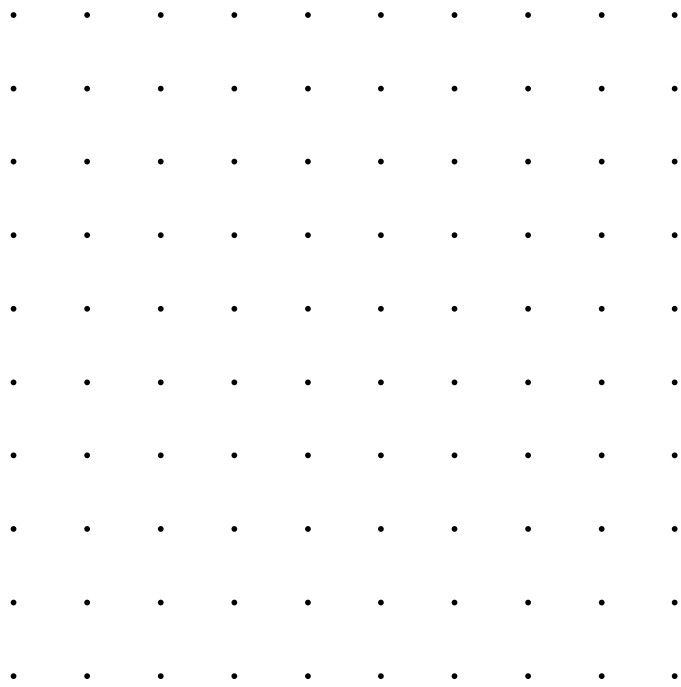


```
In[28]:= Graphics[Table[Circle[{x, y}, 1], {x, 10}, {y, 10}]]  
Out[28]=
```



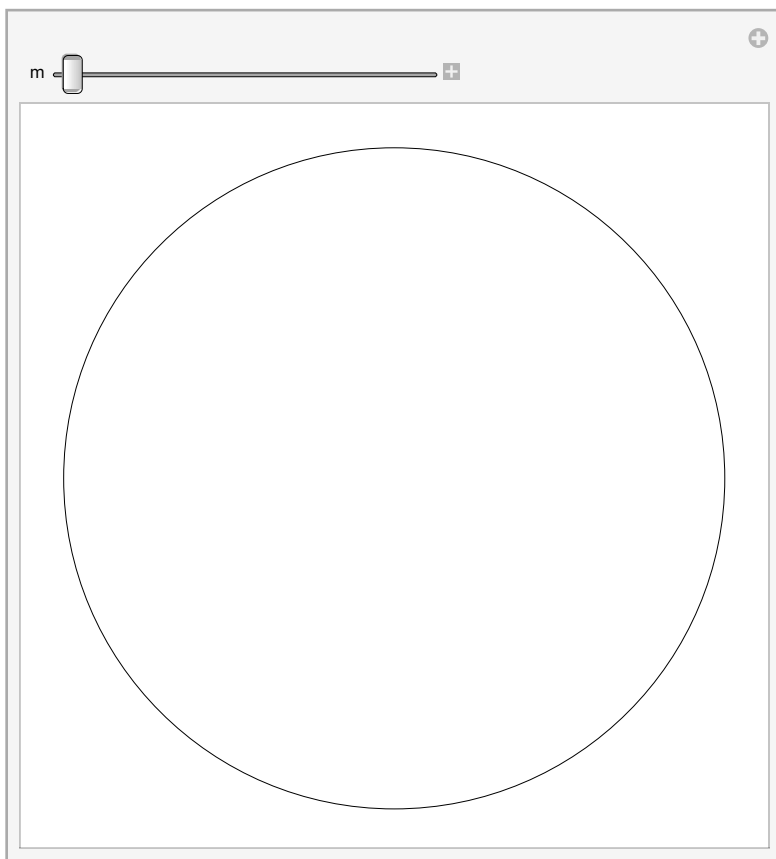
```
In[29]:= Graphics[Table[Point[{x, y}], {x, 10}, {y, 10}]]
```

```
Out[29]=
```

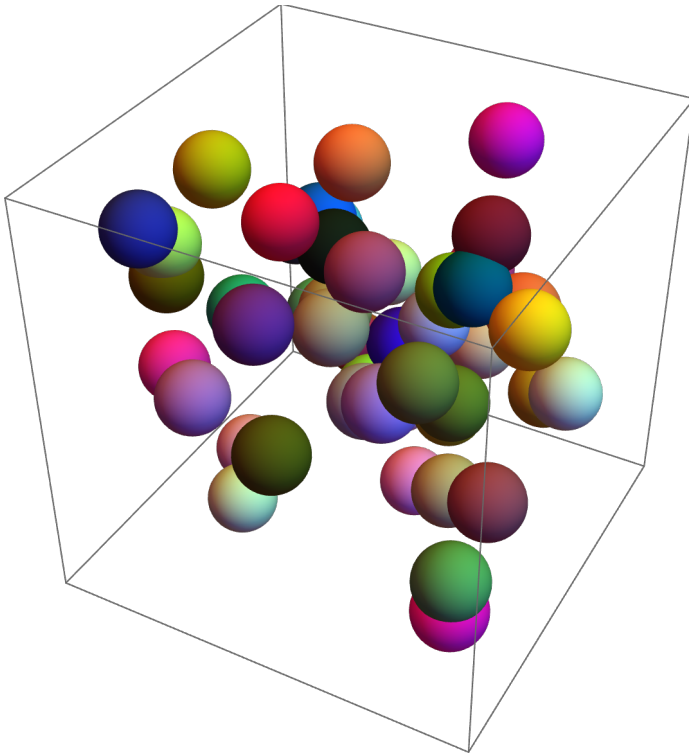


```
In[30]:= Manipulate[Graphics[Table[Circle[{0, 0}, r], {r, m}]], {m, 1, 20, 1}]
```

Out[30]=

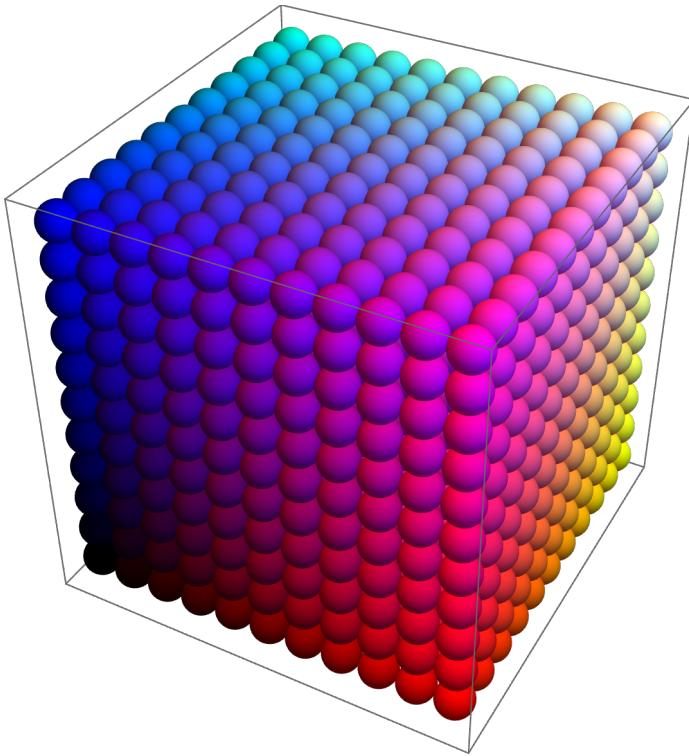


```
In[31]:= Graphics3D[Table[Style[Sphere[RandomInteger[10, 3]], RandomColor[]], 50]]  
Out[31]=
```



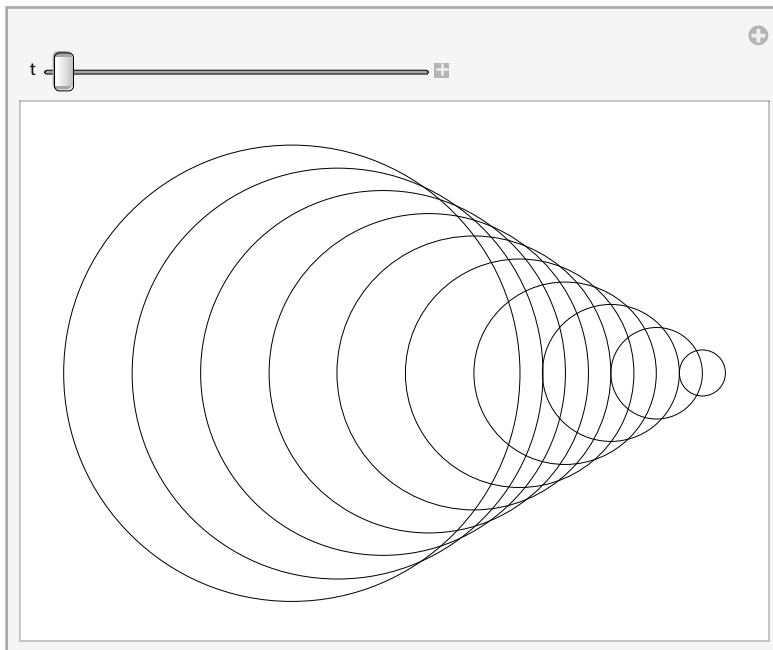
```
In[32]:= Graphics3D[Table[Style[Sphere[{x, y, z}, 0.5], RGBColor[{x / 10, y / 10, z / 10}]],  
  {x, 0, 10, 1}, {y, 0, 10, 1}, {z, 0, 10, 1}]]
```

Out[32]=

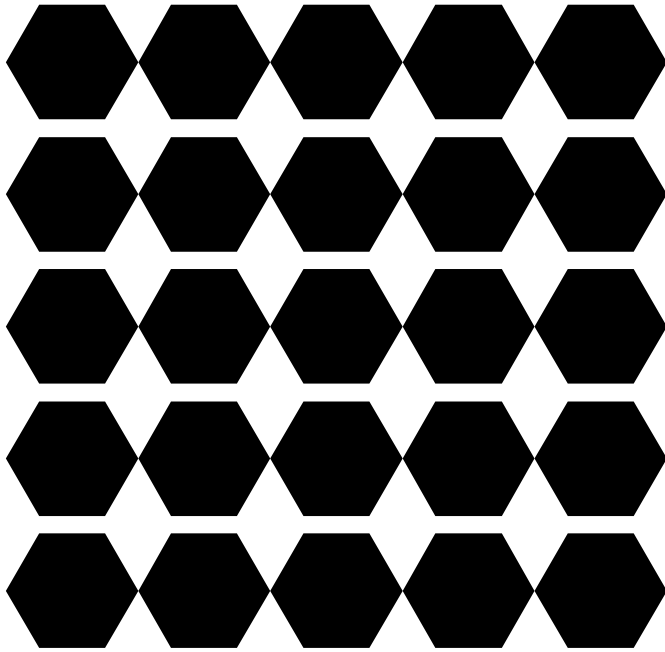


```
In[33]:= Manipulate[Graphics[Table[Circle[{t * x, 0}, x], {x, 10}]], {t, -2, 2}]
```

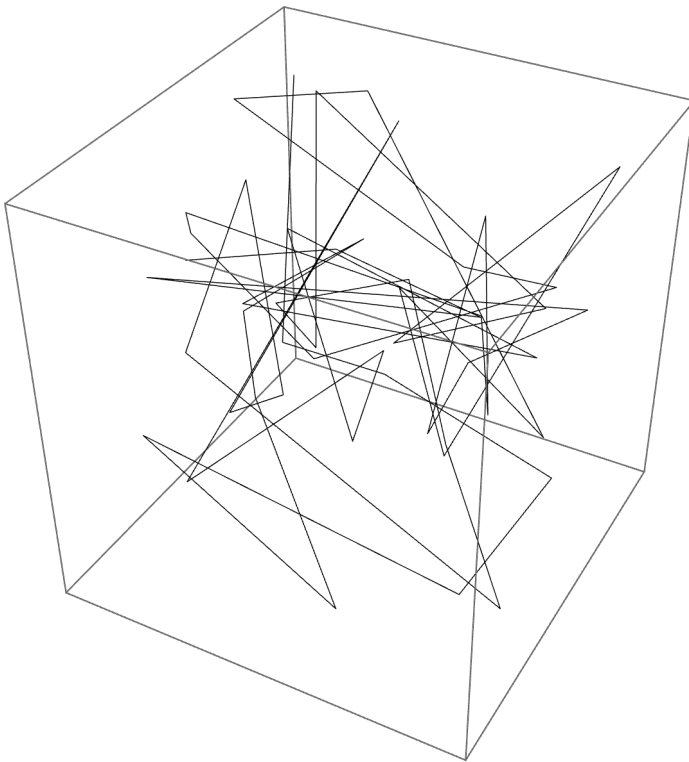
Out[33]=



```
In[34]:= Graphics[Table[RegularPolygon[{x, y}, 0.5, 6], {x, 1, 5, 1}, {y, 1, 5, 1}]]  
Out[34]=
```

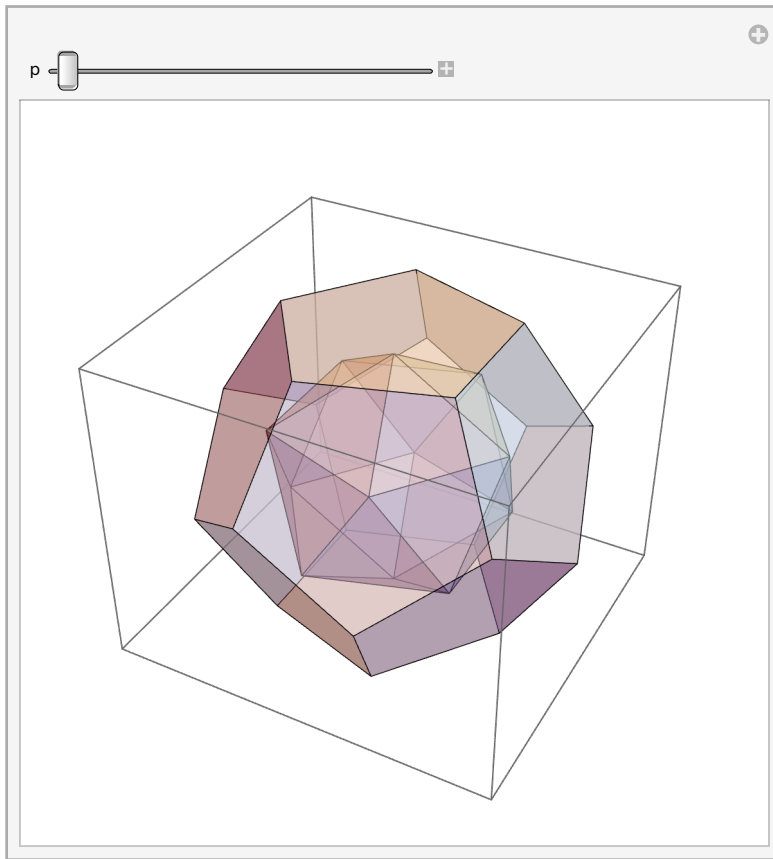


```
In[35]:= Graphics3D[Line[Table[RandomInteger[50, 3], 50]]]  
Out[35]=
```



```
In[36]:= Manipulate[Graphics3D[{Style[Icosahedron[p], Opacity[0.5]],
  Style[Dodecahedron[1], Opacity[0.5]]}], {p, 1, 2}]
```

Out[36]=



Section17

```
UnitConvert[4.5 lb, kg]
```

Out[37]=

2.04117 kg

```
UnitConvert[60.25 mi/h, km/h]
```

Out[38]=

96.963 km/h

```
UnitConvert[Eiffel Tower BUILDING["Height"], mi]
```

Out[39]=

0.205052 mi

Mount Everest MOUNTAIN ["Elevation"] / **Eiffel Tower** BUILDING ... ["Height"]

Out[40]=

26.8147

Earth PLANET ... ["Mass"] / **Moon** PLANETARY MOON ... ["Mass"]

Out[41]=

81.3

UnitConvert[¥2500. , \$...]

Out[42]=

\$16.44

UnitConvert[{35 oz , 0.25 sh tn , 45 lb }, kg ...]

Out[43]=

{ $\frac{317\,514\,659}{320\,000\,000}$ kg , 226.796 kg , $\frac{408\,233\,133}{20\,000\,000}$ kg }

UnitConvert[
EntityValue[EntityList["Planet"], "DistanceFromEarth"], light minutes ...]

Out[44]=

{11.4194 light minutes , 3.66378 light minutes ,
0. light minutes , 6.19703 light minutes , 39.2374 light minutes ,
87.3814 light minutes , 162.485 light minutes , 255.37 light minutes }

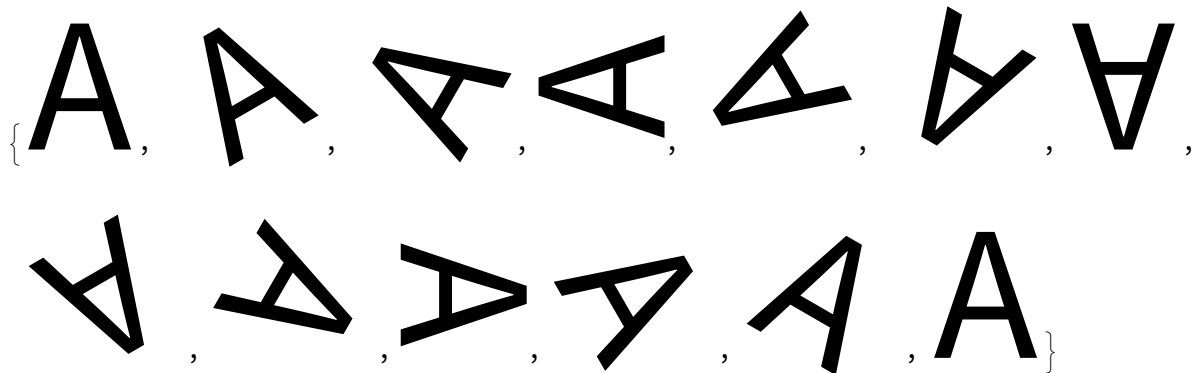
In[45]:= **Rotate**["hello", 180 Degree]

Out[45]=

oɹɹəɥ

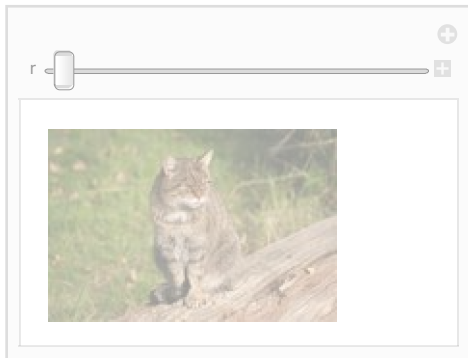
In[46]:= **Table**[Rotate[Style["A", 100], r Degree], {r, 0, 360, 30}]

Out[46]=

{

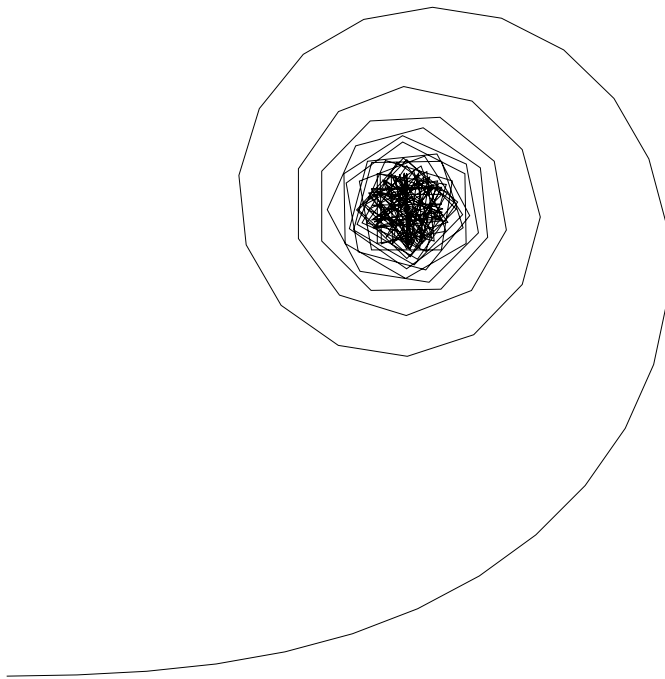
```
Manipulate[Rotate[cat["Image"], r Degree], {r, 0, 180}]
```

Out[47]=



```
In[48]:= Graphics[Line[AnglePath[Range[180] Degree]]]
```

Out[48]=



```
In[49]:= Manipulate[Graphics[Line[AnglePath[Table[n Degree, 100]]]], {n, 0, 360}]
```

Out[49]=



```
In[50]:= Graphics[Line[AnglePath[IntegerDigits[2 ^ 10 000] * 30 Degree]]]  
Out[50]=
```

