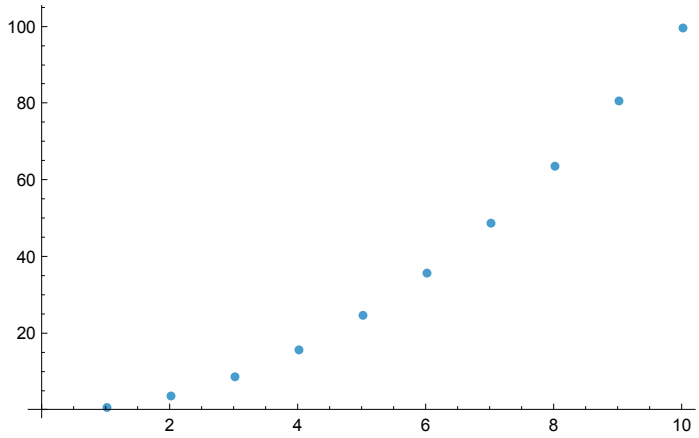
Walker — PS 2 — 2025-01-21

In[•]:=
```
Reverse[Range[10]^2]
Total[Range[10]^2]
ListPlot[Range[10]^2]
Sort[Join[Range[4], Range[4]]]
Range[11] + 9
Sort[Join[Range[5]^2, Range[5]^3]]
Length[IntegerDigits[2^128]]
First[IntegerDigits[2^32]]
Take[IntegerDigits[2^100], 10]
Max[IntegerDigits[2^20]]
Count[IntegerDigits[2^1000], 0]
Part[Sort[IntegerDigits[2^20]], 2]
ListLinePlot[IntegerDigits[2^128]]
Take[Drop[Range[100], 10], 10]
```

Out[•]=
```
{100, 81, 64, 49, 36, 25, 16, 9, 4, 1}
```

Out[•]=
```
385
```

Out[•]=



Out[•]=
```
{1, 1, 2, 2, 3, 3, 4, 4}
```

Out[•]=
```
{10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20}
```

Out[•]=
```
{1, 1, 4, 8, 9, 16, 25, 27, 64, 125}
```

Out[•]=
```
39
```

Out[•]=
```
4
```

Looks good!

For the very last drawing, he wanted them all on top of each other, which is worth knowing how to do.

10/10

Out[•]=

{1, 2, 6, 7, 6, 5, 0, 6, 0, 0}

Out[•]=

8

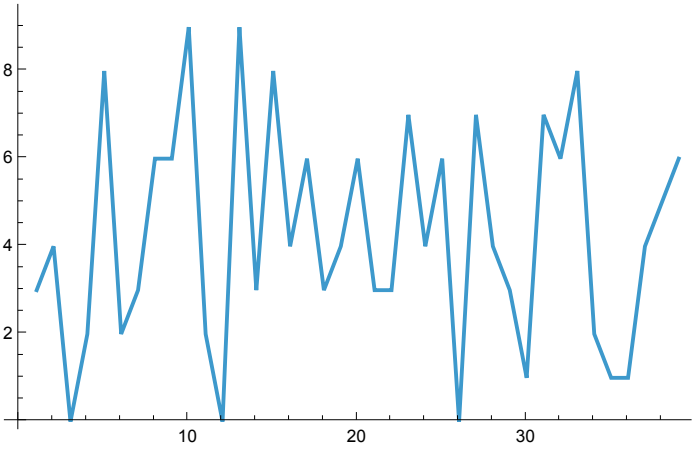
Out[•]=

28

Out[•]=

1

Out[•]=



Out[•]=

{11, 12, 13, 14, 15, 16, 17, 18, 19, 20}

In[•]:=

```
Table[1000, 5]
Table[n^3, {n, 10, 20}]
NumberLinePlot[Range[20]^2]
Table[n, {n, 0, 20, 2}]
Table[n, {n, 1, 10}]
BarChart[Range[10]^2]
Table[IntegerDigits[n^2], {n, 1, 10}]
ListLinePlot[Table[Length[IntegerDigits[n^2]], {n, 1, 100}]]
Table[First[IntegerDigits[n^2]], {n, 1, 20}]
ListLinePlot[Table[First[IntegerDigits[n^2]], {n, 1, 100}]]
```

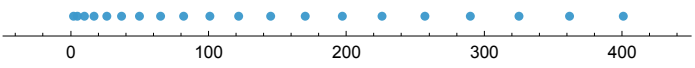
Out[•]=

{1000, 1000, 1000, 1000, 1000}

Out[•]=

{1000, 1331, 1728, 2197, 2744, 3375, 4096, 4913, 5832, 6859, 8000}

Out[•]=



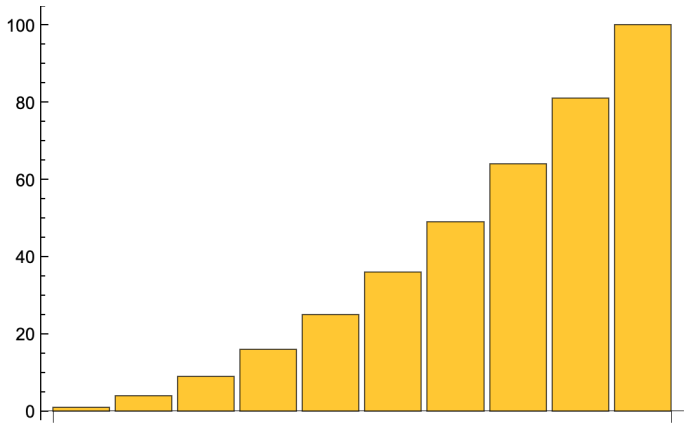
Out[•]=

{0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20}

Out[•]=

{1, 2, 3, 4, 5, 6, 7, 8, 9, 10}

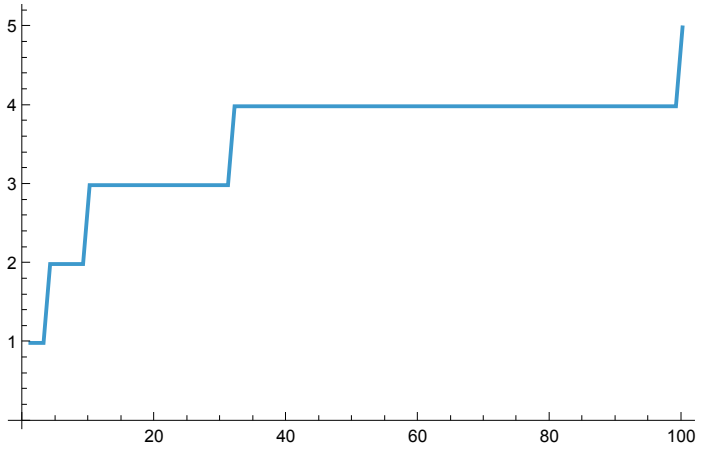
Out[ ]=



Out[ ]=

```
{{1}, {4}, {9}, {1, 6}, {2, 5}, {3, 6}, {4, 9}, {6, 4}, {8, 1}, {1, 0, 0}}
```

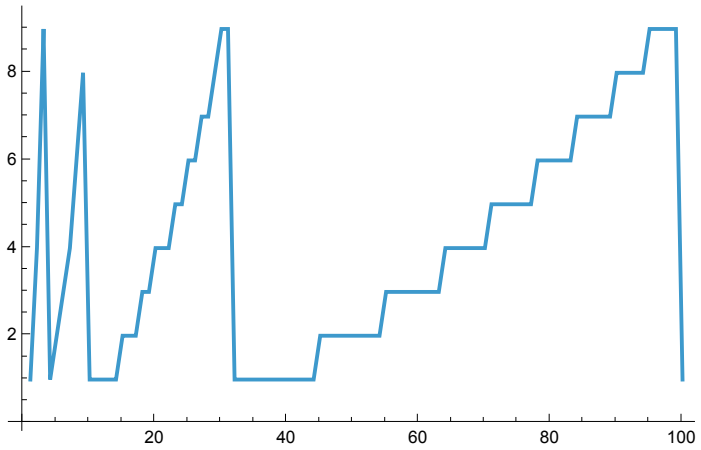
Out[ ]=



Out[ ]=

```
{1, 4, 9, 1, 2, 3, 4, 6, 8, 1, 1, 1, 1, 1, 2, 2, 2, 3, 3, 4}
```

Out[ ]=



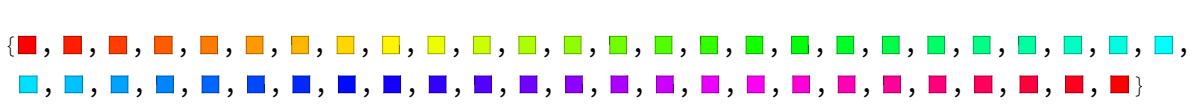
In[•]:=
```
{Red, Yellow, Green}
Column[{Red, Yellow, Green}]
ColorNegate[Orange]
Table[Hue[n], {n, 0, 1, 0.02}]
Table[RGBColor[1, n, 1], {n, 0, 1, 0.05}]
Blend[{Pink, Yellow}]
Table[Blend[{Yellow, Hue[n]}], {n, 0, 1, 0.05}]
Table[Style[n, Hue[n]], {n, 0, 1, 0.1}]
Style[Purple, 100]
Table[Style[Red, n], {n, 10, 100, 10}]
Style[999, 100, Red]
Table[Style[n^2, n^2], {n, 0, 10}]
Table[Part[{Red, Yellow, Green}, RandomInteger[{1, 3}]], 100]
Table[Style[Part[IntegerDigits[2^1000], n],
  3 * Part[IntegerDigits[2^1000], n]], {n, 1, 50}]
```

Out[•]=

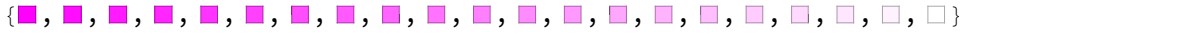
Out[•]=

Out[•]=

Out[•]=



Out[•]=



Out[•]=

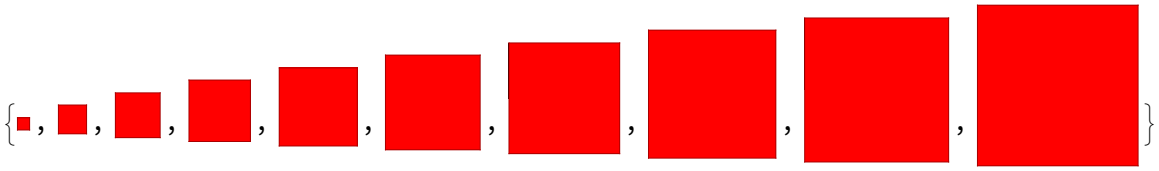
Out[•]=

Out[•]=

{0., 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.}

Out[•]=

Out[ ]=



Out[ ]=

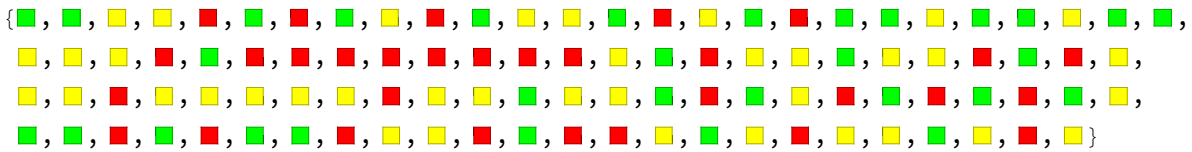
999

Out[ ]=

{ , , 4, 9, 16, 25, 36, 49,

64, 81, 100}

Out[ ]=



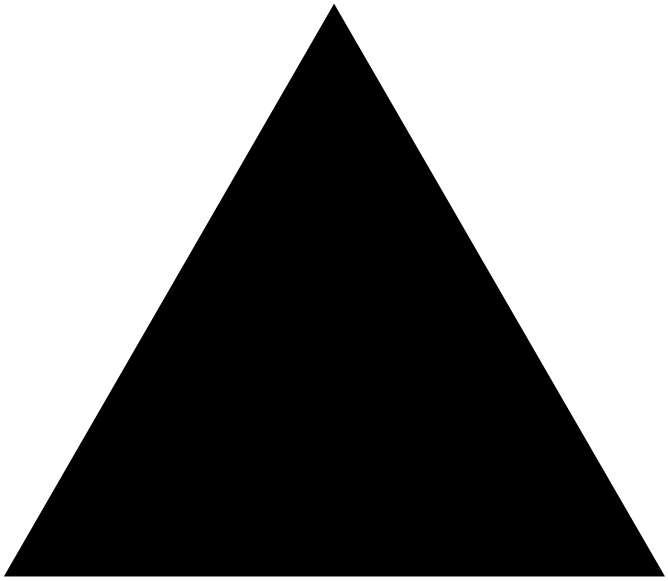
Out[ ]=

{1, , 7, 1, 5, , 8, 6, , 7, 1, 8, 6, 2, 6, 7, 3, 2, , 9, 4, 8, 4, 2, 5,

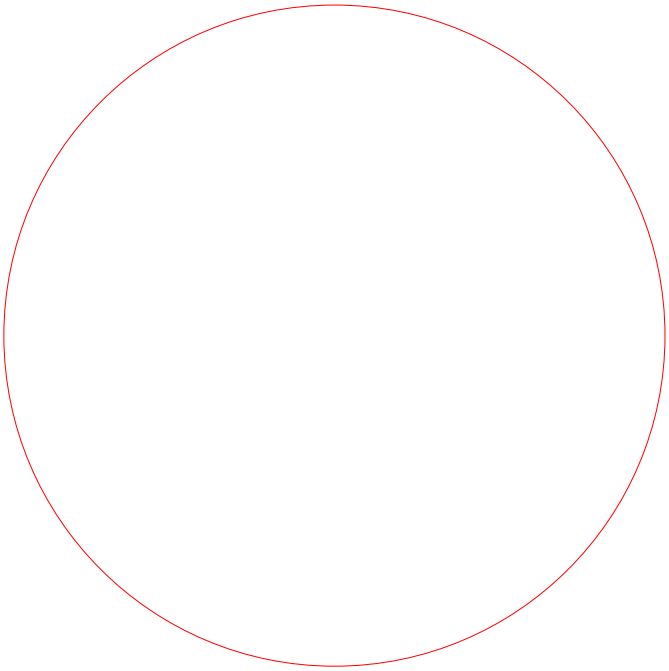
, 4, 9, , 6, , , , 1, 8, 1, , 5, 6, 1, 4, , 4, 8, 1, 1, 7, , 5, 5}

In[ ]:=
```
Graphics[RegularPolygon[3]]
Graphics[Style[Circle[], Red]]
Graphics[Style[RegularPolygon[8], Red]]
Table[Graphics[Style[Disk[], Hue[n]]], {n, 0, 1, 0.1}]
Column[{Graphics[Style[RegularPolygon[3], Red]],
  Graphics[Style[RegularPolygon[3], Green]]}]
Table[Graphics[Style[RegularPolygon[n], Pink]], {n, 5, 10}]
Graphics3D[Style[Cylinder[], Purple]]
Reverse[Table[Graphics[Style[RegularPolygon[n], RandomColor[]]], {n, 3, 8}]]
```

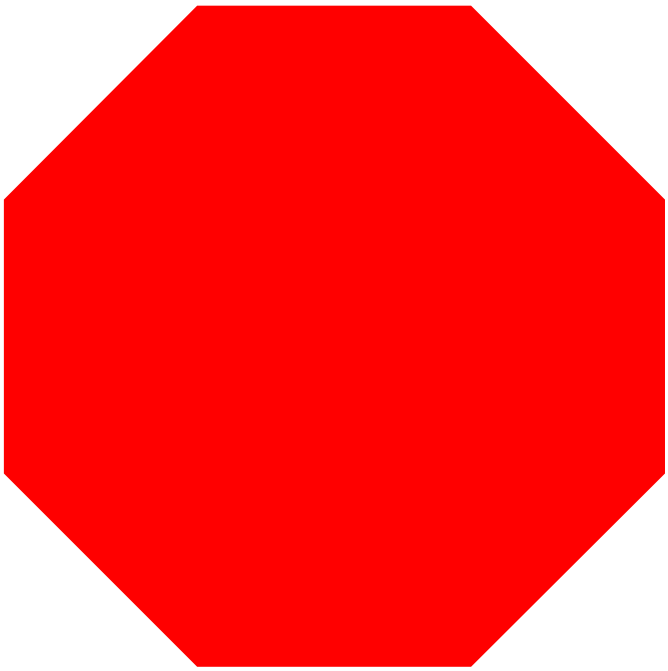
Out[ ]=



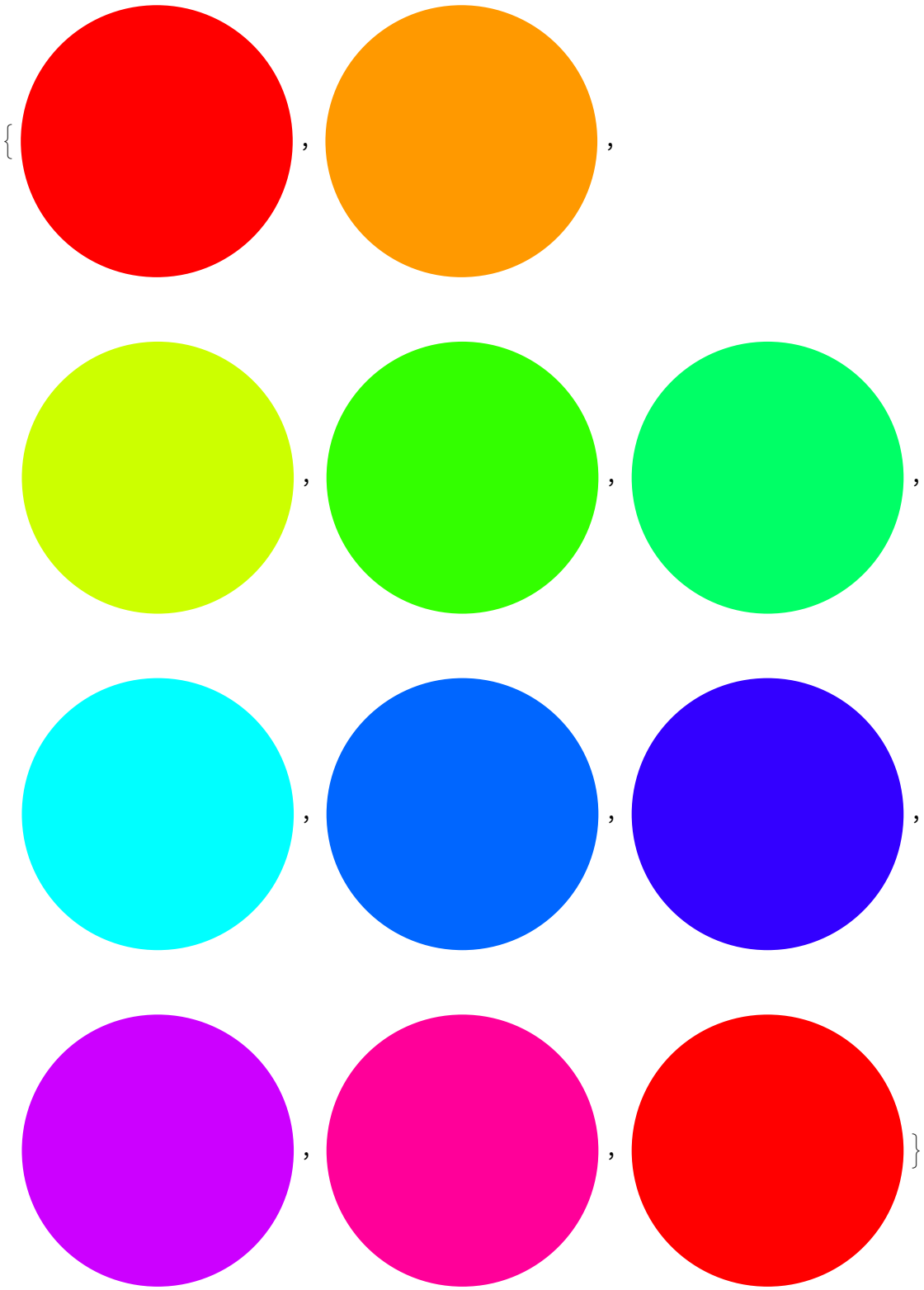
Out[ ]=



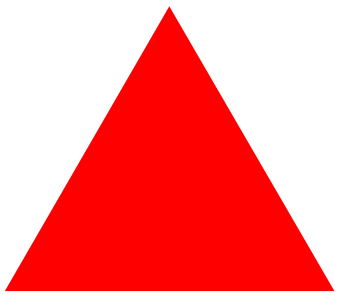
Out[ ]=

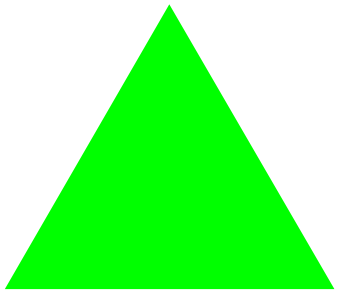


Out[ ]=

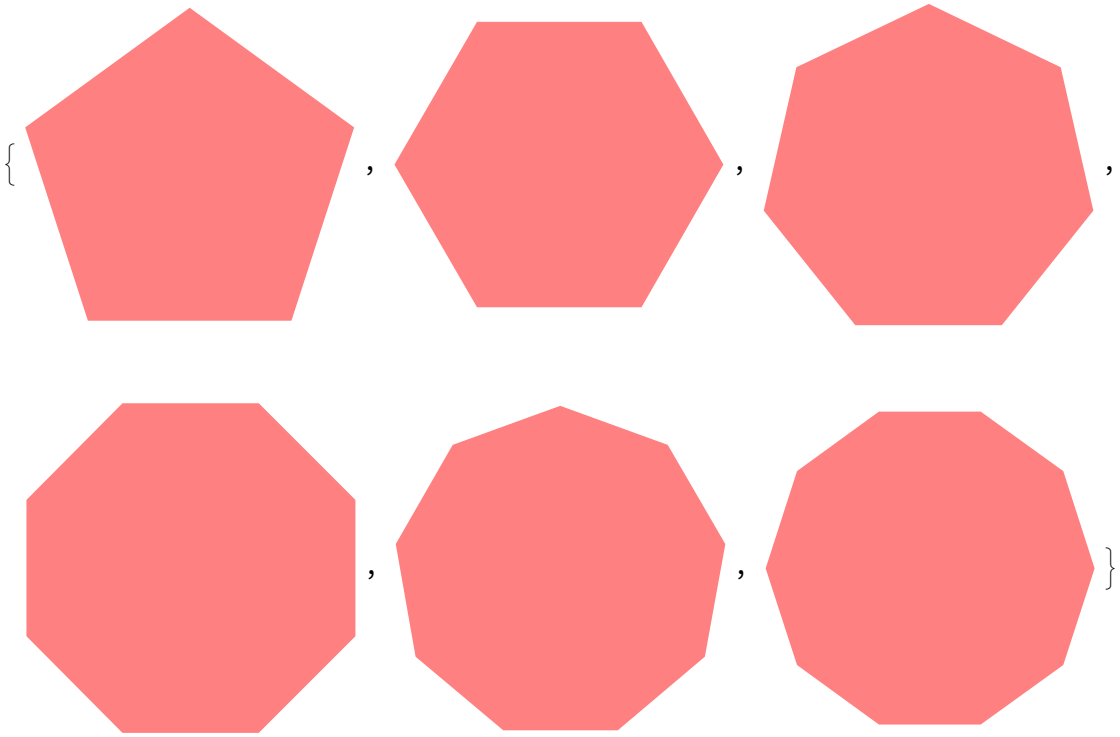


Out[ ]=

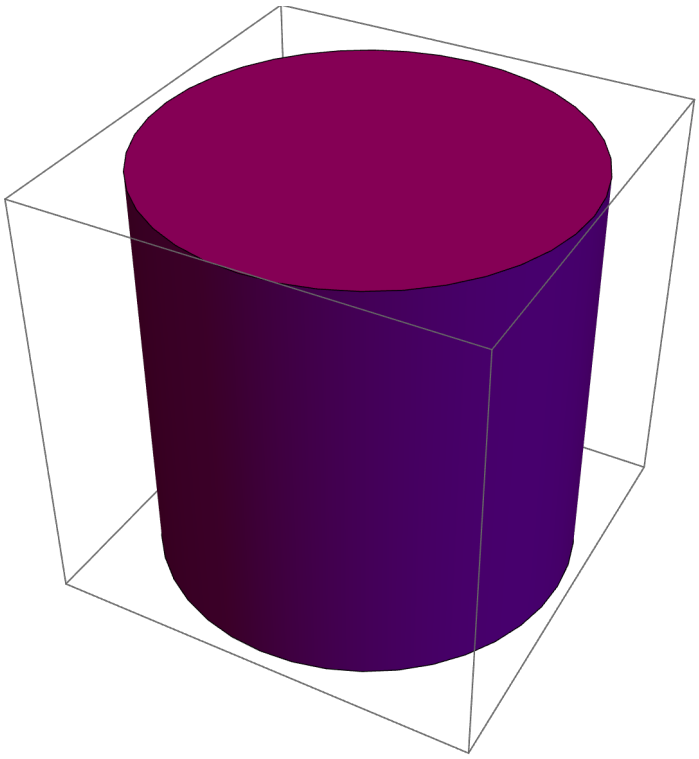




Out[ ]=



Out[ ]=



Out[ ]=