Rania — PS2 (2025-01-21)

```
In[110]:=
       (*5.1*) Reverse [Range [10] ^2]
       (*5.2*) Total [Range [10] ^ 2]
       (*5.3*)ListPlot[Range[10]^2]
       (*5.4*)Sort[Join[Range[4], Range[4]]]
       (*5.5*) Range [10, 20] (*what do they mean by +?*)
       (*5.6*)Sort[Join[Range[5]^2, Range[5]^3]]
       (*5.7*)IntegerLength[2^128]
       (*5.8*) First[IntegerDigits[2^128]]
       (*5.9*) Take [Integer Digits [2 ^ 100], 10]
       (*5.10*) Max[IntegerDigits[2^20]]
       (*5.11*)Count[IntegerDigits[2^1000], 0]
       (*5.12*)Part[Sort[IntegerDigits[2^20]], 2]
       (*5.13*)ListLinePlot[IntegerDigits[2^128]]
       (*5.14*)Drop[Take[Range[100], 20], 10]
Out[110]=
       {100, 81, 64, 49, 36, 25, 16, 9, 4, 1}
Out[111]=
       385
Out[112]=
       100
       80
       60
       40
       20
Out[113]=
       \{1, 1, 2, 2, 3, 3, 4, 4\}
Out[114]=
       \{10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20\}
Out[115]=
       \{1, 1, 4, 8, 9, 16, 25, 27, 64, 125\}
```

Out[126]=

Out[127]= {2, 4, 6, 8, 10, 12, 14, 16, 18, 20}

Out[128]=

True

Out[129]= 100 80 60 40 20

Out[130]= $\{\{1\}, \{4\}, \{9\}, \{1, 6\}, \{2, 5\}, \{3, 6\}, \{4, 9\}, \{6, 4\}, \{8, 1\}, \{1, 0, 0\}\}$

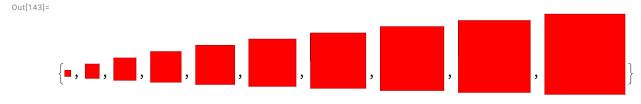
Out[131]= 5 100

Out[132]= $\{1, 4, 9, 1, 2, 3, 4, 6, 8, 1, 1, 1, 1, 1, 2, 2, 2, 3, 3, 4\}$

> be a rule or a list of rules. 1

Out[133]= ListLinePlot $[n^2, \{n, 100\}]$

```
In[134]:=
     (*7.1*) {Red, Yellow, Green}
     (*7.2*)Column[{Red, Yellow, Green}]
     (*7.3*)ColorNegate[Orange]
     (*7.4*) Table [Hue[n], {n, 0, 1, 0.02}]
     (*7.5*) Table [RGBColor[1, G, 1], {G, 0, 1, 0.05}]
     (*7.6*)Blend[{Pink, Yellow}]
     (*7.7*) Table [Blend [{Yellow, Hue[n]}], {n, 0, 1, 0.05}]
     (*7.8*) Table [Style[n, Hue[n]], {n, 0, 1, 0.1}]
     (*7.9*)Style[Purple, 100]
     (*7.10*) Table [Style [Red, x], {x, 10, 100, 10}]
     (*7.11*)Style[999, 100, Red]
     (*7.12*) Table [Style [x^2, x^2], {x, 10}]
     (*7.13*)Part[{Red, Yellow, Green}, RandomInteger[{1, 3}, 100]]
     (*7.14*) Table[
     Style[Part[IntegerDigits[2^1000], n], 3 Part[IntegerDigits[2^1000], n]], {n, 50}]
Out[134]=
     { ■ , □ , ■ }
Out[135]=
Out[136]=
Out[137]=
     Out[138]=
     Out[139]=
Out[140]=
     Out[141]=
     \{0., 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.\}
Out[142]=
```



Out[144]=

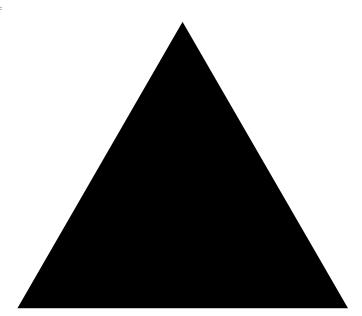
Out[145]=

$$\{1, 1, 9, 16, 25, 36, 49, 64, 81, 100\}$$

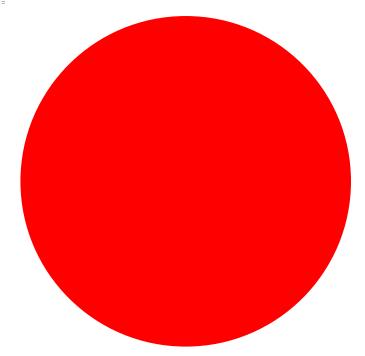
Out[146]=

Out[147]= , 4, 9, , 6, , , , 3, 8, 3, , 5, 6, 3, 4, , 4, 8, 3, 3, 7, , 5, 5

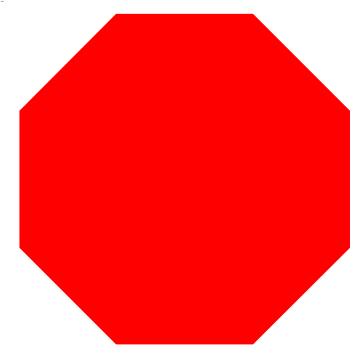
```
In[148]:=
      (*8.1*) Graphics [RegularPolygon[3]]
      (*8.2*)Graphics[{Red, Disk[]}]
      (*8.3*)Graphics[{Red, RegularPolygon[8]}]
      (*8.4*) Table [Graphics [Style [Disk[], Hue[n]]], {n, 0, 1, 0.1}]
      (*8.5*) Column[{Graphics[Style[RegularPolygon[3], Red]],
         Graphics[Style[RegularPolygon[3], Green]]}]
      (*8.6*) Table [Graphics [Style [Regular Polygon [n], Pink]], {n, 5, 10}]
      (*8.7*) Graphics3D[{Purple, Cylinder[]}]
      (*8.8*)Graphics[Reverse[Table[Style[RegularPolygon[n], RandomColor[]], {n, 3, 8}]]]
```

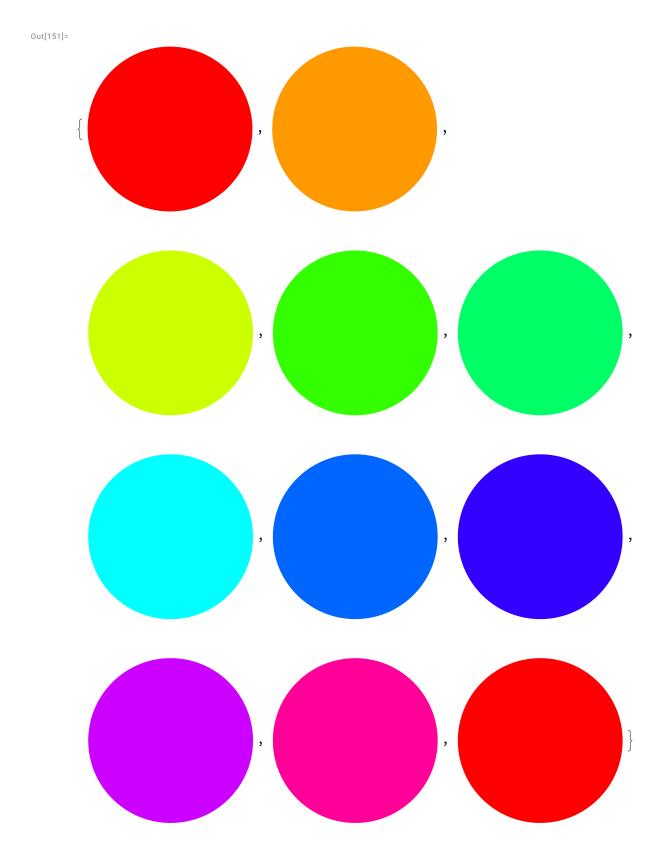


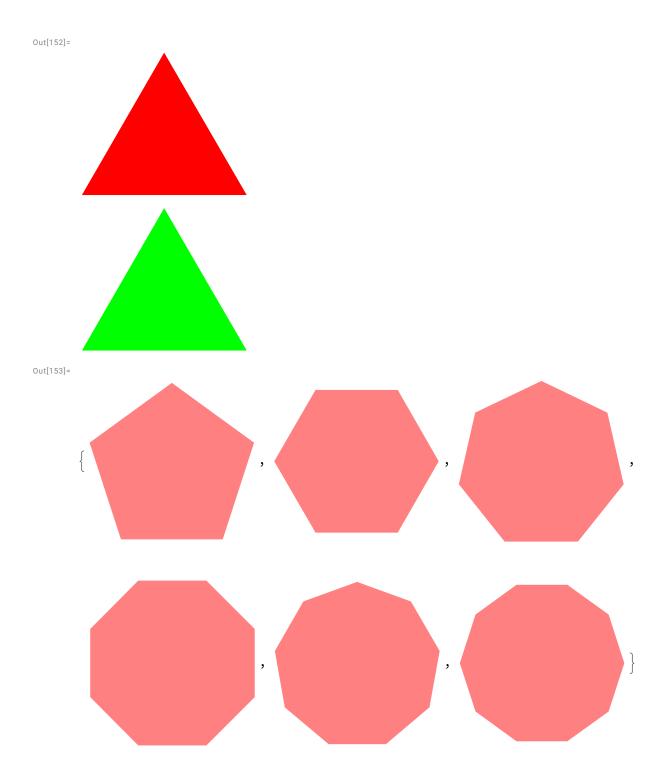
Out[149]=

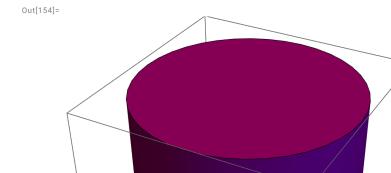


Out[150]=









Out[155]=

