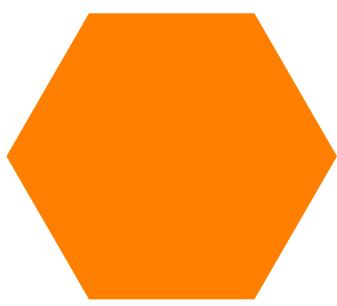
Eli — PS 17 — 2025-04-11

```
In[242]:=
       (*39.1*)
       x = RandomInteger[100];
       \{x, x+1, x+2, x^2\}
Out[243]=
       {2, 3, 4, 4}
In[244]:=
       (*39.2*)
In[245]:=
       x := RandomInteger[100];
       \{x, x+1, x+2, x^2\}
Out[246]=
       {2, 20, 29, 121}
In[247]:=
       (*40.1*) f[n_] := n^2;
       f[3]
Out[248]=
In[249]:=
       (*40.2*)poly[n_] := Graphics[Style[RegularPolygon[n], Orange]];
       poly[6]
Out[250]=
```



In[266]:=

```
In[251]:=
       (*40.3*)g[a_, b_] := Reverse[{a, b}];
       g[2, 3]
Out[252]=
       {3, 2}
In[253]:=
        (*40.4*)h[a_, b_] := (a b) / (a + b)
       h[1, 2]
Out[254]=
        2
        3
In[255]:=
        (*40.5*)i[a_, b_] := \{a+b, a-b, a/b\}
       i[2, 3]
Out[256]=
       \left\{5, -1, \frac{2}{3}\right\}
In[257]:=
        (*40.6*)
In[258]:=
       evenOdd[n_] := If[n == 0, Red, If[EvenQ[n] == True, Black, White]]
       even0dd[2]
Out[259]=
In[260]:=
        (*40.7*) j[a_, b_, c_] := If[a == 1, b + c, If[a == 2, b c, If[a == 3, b^c, Null]]]
       j[3, 2, 3]
Out[261]=
       8
In[262]:=
        (*40.8*)l[n_] := {
          l[0] = 1,
          l[1] = 1,
          l[n-1] + l[n-2]
       l[3]
Out[263]=
       \{1, 1, \{2, 2, 3\}\}
In[264]:=
        (*40.9*)animal[n_String] := Interpreter[n]["Animal"]["Image"]
        (*for some reason, even basic uses of entities are not working right now*)
       animal["tiger"]
Out[265]=
       Missing[NotAvailable, Image]
```

```
In[267]:=
        (*40.10*) nearWords[word_String, n_] := (
          p = Flatten[Position[WordList[], word]];
          Nearest[WordList[], word, n])
       nearWords["grape", 5]
Out[268]=
        {grape, crape, drape, gape, grace}
In[269]:=
In[270]:=
       MapApply[f, expr]
Out[270]=
In[271]:=
       MapApply[ToUpperCase, {{"a"}}]
Out[271]=
        \{\, A\, \}
In[272]:=
       MapApply[evenOdd, {{1}, {2}, {3}}]
Out[272]=
        \{\Box, \blacksquare, \Box\}
```