- 2) (10 pts) ANL (Summations and Algorithm Analysis)
- a) (8 pts) Give a summation that represents the value returned by the following function in terms of its input parameter, n, and then derive its closed form:

```
int something_to_ponder_over(int n)
{
   int i, retval = 0, pow = 1;
   for (i = 0; i < n; i++)
   {
      retval += pow;
      pow *= 14;
   }
   return retval;
}</pre>
```

b) (2 pts) Using big-oh notation, what is the runtime of the function given in part (a)?