Tracing Algorithms

1. When 18 is entered, what value will be printed by the following algorithm? In general, what does this algorithm do?

   ![Flowchart](image1)

   - Input n
   - If n ≥ 7
     - No
     - Print n
   - Yes
     - n ← n - 7

2. When 5 is entered, what value will be printed by the following algorithm? When an odd number is entered, what will this algorithm do?

   ![Flowchart](image2)

   - Input n
   - sum ← 0
   - If n > 0
     - No
     - Print sum
   - Yes
     - (n mod 2) = 0
       - Yes
         - sum ← sum + n²
       - No
         - n ← n - 1
     - Print sum