For problems 1 – 10, determine what values are stored in each variable after executing the following pseudocode instructions. You must show your work. (8 points each)

1. \( a = 1 \)
   \( b = 2 \)
   \( a = a + 7 \)
   \( b = b + 9 \)
   \( b = a + b \)

   \( a = 8 \)
   \( b = 19 \)

2. \( d = 23 \)
   \( f = 2 \)
   \( d = d + d + f + 1 \)
   \( f = d + d + f + 1 \)

   \( d = 49 \)
   \( f = 101 \)

3. \( g = 7 \)
   \( h = g + 1 \)
   \( h = h + 1 \)
   \( g = g + g \)
   \( h = h + g \)
   \( h = 3 \)

   \( g = 14 \)
   \( h = 3 \)

4. \( j = 18 \)
   \( k = j \)
   \( j = k \)
   \( k = j \)

   \( j = 18 \)
   \( k = 18 \)

5. \( m = 17 \)
   \( n = m - 5 \)
   \( n = n + 1 \)

   \( m = 17 \)
   \( n = 13 \)

6. \( p = 1 \)
   \( \text{if } ( p > 1 ) \)
   \{ \)
   \( \quad p = p + 1 \)
   \} \n
   \( p = 1 \)
7. q = 12
   r = 12
   if (q > 10)
   {
       q = q + r + 1
   }
   q = 25
   r = 12

8. u = 2
   if (u <= 2)
   {
       u = u + 7
       u = u + u
   }
   u = 5

9. w = 1
   while (w < 5)
   {
       w = w + 2
   }
   w = 5

10. v = 12
    while (v >= 3)
    {
        If (v > 6)
        {
            v = v - 2
        }
        v = v - 1
    }
    v = v + 3
11. Write pseudocode instructions to print all even integers between 1 and 11. You must use a while loop to calculate each integer before printing it to the screen. (20 points)

```plaintext
x = 2
while (x < 11)
{
    print x
    x = x + 2
}
```