SYSTEM OF EQUATIONS-WORD PROBLEMS #5

Directions: Find the answers to each situation below by setting up and solving a system of equations.

1) The sum of a number, \( x \), and another number, \( y \), is 62. \( y \) is 16 less than \( x \). Find \( x \) and \( y \).
   \[ \begin{align*}
   x + y &= 62 \\
   y &= x - 16
   \end{align*} \]
   \[ x = \quad y = \]

2) The sum of a number, \( x \), and another number, \( y \), is 138. \( y \) is 36 more than \( x \). Find \( x \) and \( y \).
   \[ x = \quad y = \]

3) The sum of a twice a number, \( x \), and another number, \( y \), is 88. \( x \) is 14 more than twice the value of \( y \). Find \( x \) and \( y \).
   \[ x = \quad y = \]

4) The sum of five times a number, \( x \), and another number, \( y \), is 326. The difference of \( x \) and three times the value of \( y \) is 2. Find \( x \) and \( y \).
   \[ x = \quad y = \]

5) The sum of half of a number, \( x \), and another number, \( y \), is 54. \( x \) is 18 more than \( y \). Find \( x \) and \( y \).
   \[ x = \quad y = \]

6) The sum of a three times a number, \( x \), and twice another number, \( y \), is 6. \( x \) is 12 more than \( y \). Find \( x \) and \( y \).
   \[ x = \quad y = \]

7) The sum of a twice number, \( x \), and twice another number, \( y \), is -78. The value of \( x \) is one less than the value of \( y \). Find \( x \) and \( y \).
   \[ x = \quad y = \]

8) The sum of a number, \( x \), and the opposite of another number, \( y \), is -21. \( y \) is 3 more than three times the value of \( x \). Find \( x \) and \( y \).
   \[ x = \quad y = \]