SYSTEM OF EQUATIONS-WORD PROBLEMS #6

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 62.5. The difference of $x$ and $y$ is 20.5. Find $x$ and $y$.
   \[ x + y = 62.5 \quad x - y = 20.5 \]
   \[ x = \quad y = \]

2) The sum of a number, $x$, and another number, $y$, is 101. The difference of $x$ and $y$ is 163. Find $x$ and $y$.
   \[ x = \quad y = \]

3) The sum of a twice a number, $x$, and another number, $y$, is 1. The difference of $x$ and $y$ is -0.25. Find $x$ and $y$.
   \[ x = \quad y = \]

4) The sum of five times a number, $x$, and another number, $y$, is 0. The difference of $x$ and $y$ is 72. Find $x$ and $y$.
   \[ x = \quad y = \]

5) The sum of half of a number, $x$, and another number, $y$, is -28. The difference of $x$ and $y$ is 4. Find $x$ and $y$.
   \[ x = \quad y = \]

6) The sum of a three times a number, $x$, and half of another number, $y$, is 96. The difference of $x$ and $y$ is 60. Find $x$ and $y$.
   \[ x = \quad y = \]

7) The sum of twice a number, $x$, and twice another number, $y$, is 118. The value of $y$ is one less than twice the value of $x$. Find $x$ and $y$.
   \[ x = \quad y = \]

8) The sum of a number, $x$, and the opposite of another number, $y$, is 66. The difference of $x$ and $y$ is also 66. Find $x$ and $y$.
   \[ x = \quad y = \]

www.imathworksheets.com