1- Answers:

a. $x = 1$

b. $x = \frac{-1-\sqrt{5}}{2}$, $x = \frac{-1+\sqrt{5}}{2}$

c. $x = -7$, $x = 1$

d. $x = -1$, $x = 0$, or $x = 1$

2- Answers:

a. No solution, because the square root of a number is always positive.

b. No solution.

c. $y = 5$

d. $x = 7$ or $x = 3$

e. The set of solutions is $\{-2, -\sqrt{3}, \sqrt{3}, 2\}$