Multiple Solutions

1. For each of the following equalities and inequalities, find two values for \( x \) that make the statement true.
   
   a. \( x^2 = 121 \)
      ____________
      ____________
   
b. \( x^2 = x \)
      ____________
      ____________
   
c. \( x^2 < x \)
      ____________
      ____________
   
d. \((x - 1)(5x^4 - 7x^3 + x) = 0\)
      ____________
      ____________
   
e. \(1776x + 1066 \geq 365\)
      ____________
      ____________
   
f. \(x^2 > x^3\)
      ____________
      ____________
   
g. \(|x| = x\)
      ____________
      ____________
2. Some of the equations and inequalities on the page opposite have exactly two solutions; others have more than two solutions.

   a. Write down two equations or inequalities that have exactly two solutions. Explain your answer.
   
   
   
   
   

   b. Write down one equation or inequality that has more than two solutions, but not infinitely many solutions. How many solutions does it have?
   
   
   
   
   

   c. Write down two equations or inequalities that have an infinite number of solutions.
   
   
   
   
   