
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.
