Math 1: Algebra, Geometry and Statistics
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Name:
Date:

Exit Ticket 49 – Solving by Graphing – Section 4.10

CORE

A. Use your graphing calculator to find the number of solutions to each equation. You do not need to find the actual solutions.

1. $2x - 7 = -4x + 5$

_____ solution(s)

2. $3x - \frac{2}{3} = 3x + \frac{5}{4}$

_____ solution(s)

3. $(x + 1)^3 = \sqrt{x}$

_____ solution(s)

4. $x^2 = 15$

_____ solution(s)

5. $x^3 = 15$

_____ solution(s)

6. $\sqrt{x} = 15$

_____ solution(s)

B. Use your graphing calculator to find all the solutions to each equation. List each solution in the form x = _____.

1. $x^2 = 25$

2. $x^2 - 4x = 21$

3. $17x - x^2 = 52$

4. $-x^2 - 17x = 30$

EXTENSION:

C. Decide whether each equation has 0, 1, or 2 solutions.

1. $x^2 - 2x + 3 = 0$

2. $x^2 - 2x - 3 = 0$

3. $x^2 + 6x + 11 = 0$

4. $x^2 + 6x - 11 = 0$