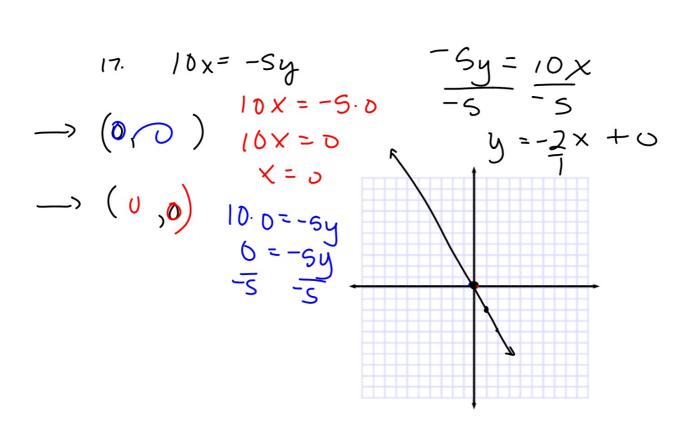
Algebra 1 3.2
Solve linear equations by graphing
Estimate solutions to a linear equation by graphing
Equations with no solution :O

X linear function parent function family of graphs
 → solution (root) of an equation }
 → zero of a function activ: whiteboards

Quiz tomorrow 3.1-3.2



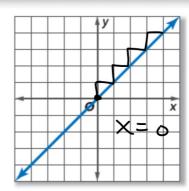


Parent function: $f(x) = I_X + O$

Type of graph: line

Domain: all real numbers

Range: all real numbers



Whiteboards

* Solve each equation by graphing. Verify your answer algebraically.

$$y = -2x + 6 = 0$$

3.
$$4x - 2 = 0$$

4.
$$9x + 3 = 0$$

Example 2 Solve an Equation with No Solution

Solve each equation.

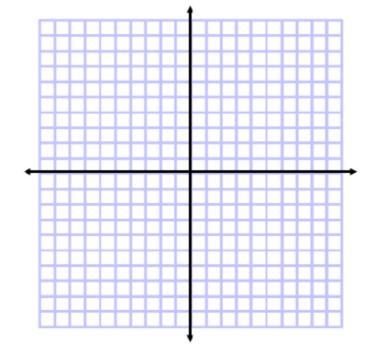
a.
$$3x + 7 = 3x + 1$$

 $-3x$

no sol.

Solve by graphing. Where do they meet?

Solve by algebra. What does it mean?



5.
$$2x - 5 = 2x + 8$$
 -2 \times

6.
$$4x + 11 = 4x - 24$$

N.S.

7.
$$3x - 5 = 3x - 10$$

8.
$$-6x + 3 = -6x + 5$$

$$3x + 5 = 3x + 5$$

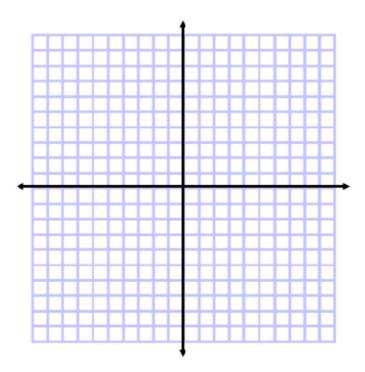
$$-3x$$

$$-3x$$

$$-3x$$

$$5 = 5$$
all numbers

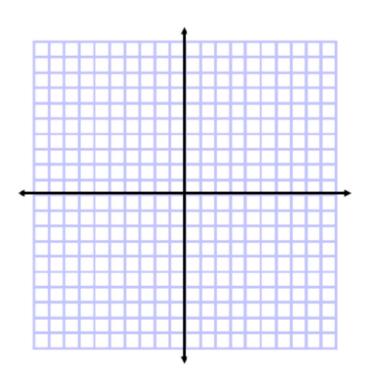
t. 2x - 4 = 2x - 6We find 2 Solve by graphing.



GuidedPractice

2A.
$$4x + 3 = 4x - 5$$

2B.
$$2 - 3x = 6 - 3x$$



9. NEWSPAPERS The function $w = 30 - \frac{3}{4}n$ represents the weight w in pounds of the papers in Tyrone's newspaper delivery bag after he delivers n newspapers. Find the zero and explain what it means in the context of this situation.

Weight No. of
$$-\frac{3}{3}$$
 \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{3}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{3}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{3}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{3}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{4}{3}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{4}{3}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{4}{3}$ \cdot $-\frac{3}{4}$ \cdot $-\frac{3}{4$

