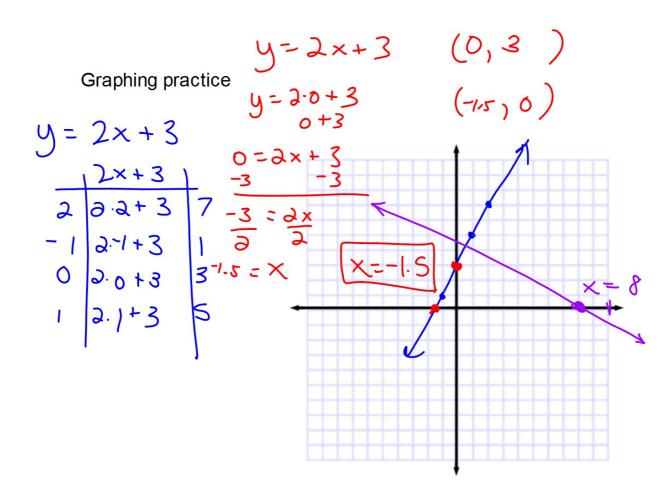
Algebra 1 Solve linear ec Estimate solut graphing

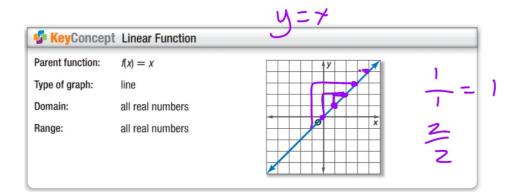
3.2

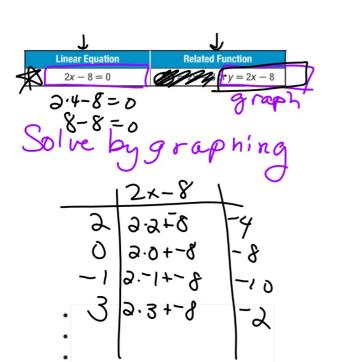
★ linear functior parent functio

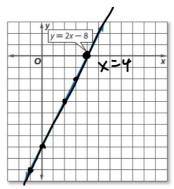
family of graph x-intercept

(0,2 X = 1









1. graph related function (may need to rearrange first)

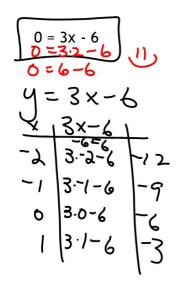
TOV or x&y intercepts

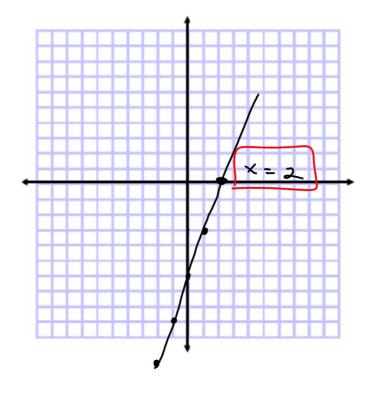
- 2. solution is x-intercept ...OR...
- 3. Solve the equation using algebra

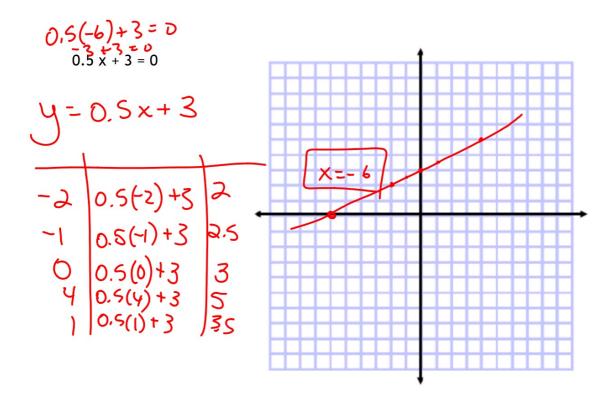
b. 3x + 1 = -2

Method 2 Solve by graphepends on directions)

- Solve by graphing:
 1. graph related function
 2. solution is x-intercept



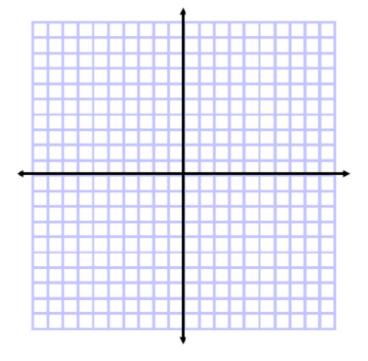




Example 2 Solve an Equation with No Solution

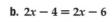
Solve each equation.

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

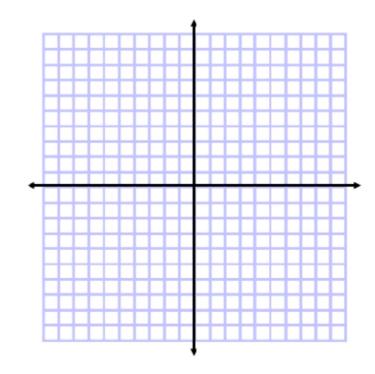


Solve using algebra Solve by graphing

Same answer!



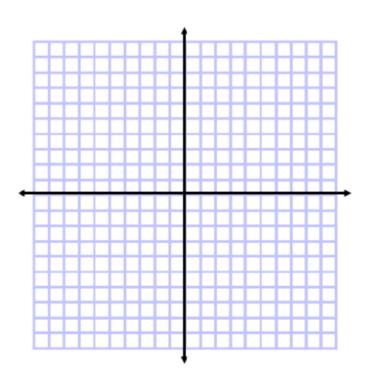
Method 2 Solve by graphing.



GuidedPractice

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

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

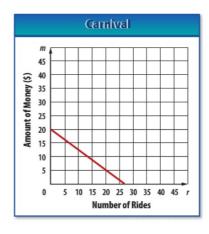




Find the zero means what is the x-intercept? (where y = 0)

Real-World Example 3 Estimate by Graphing

CARNIVAL RIDES Emily is going to a local carnival. The function m = 20 - 0.75r represents the amount of money m she has left after r rides. Find the zero of this function. Describe what this value means in this context.



GuidedPractice

3. FINANCIAL LITERACY Antoine's class is selling candy to raise money for a class trip. They paid \$45 for the candy, and they are selling each candy bar for \$1.50. The function y = 1.50x - 45 represents their profit y when they sell x candy bars. Find the zero and describe what it means in the context of this situation.

Where is y-coord = 0?