Algebra 1 3.2

Solve linear equations by graphing**
Estimate solutions to a linear equation by graphing

T.O.V.

linear function parent function family of graphs x-intercept

Algebra 1 3.2

Solve linear equations by graphing**

(,0) (0,)

(,0) (0,)

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(solve linear equations by graphing**

(,0) (0,)

(solve linear equations by graphing**

(solve linear equation by graphing to linear equation b

** First graph, then answer a follow-up questions

Graphing practice

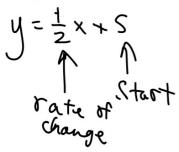
(x-int.

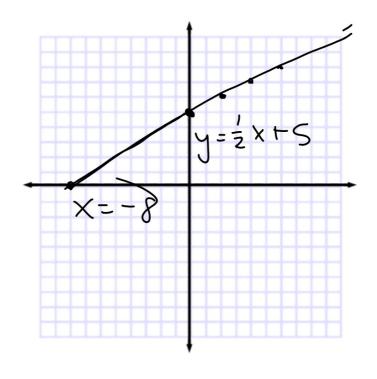
options:

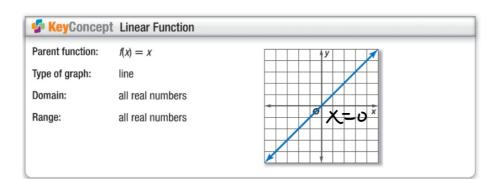
TOV

x-int & y-int

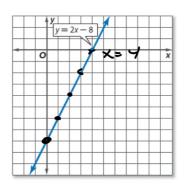
y=mx+b







Linear Equation $2x - 8 = 0$	Related Function $f(x) = 2x - 8 \text{ or } y = 2x - 8$
3x=8 3x-8=0 1	$\frac{f(x) = 2x - 8 \text{ or } y = 2x - 8}{1}$ $\frac{f(x)}{1}$ \frac



Solve by graphing

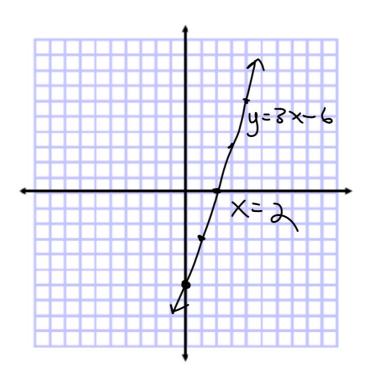
Solve by graphing Solve using algebra

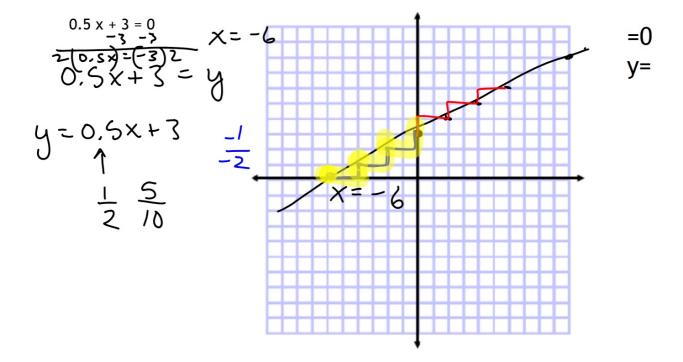
What do you notice?

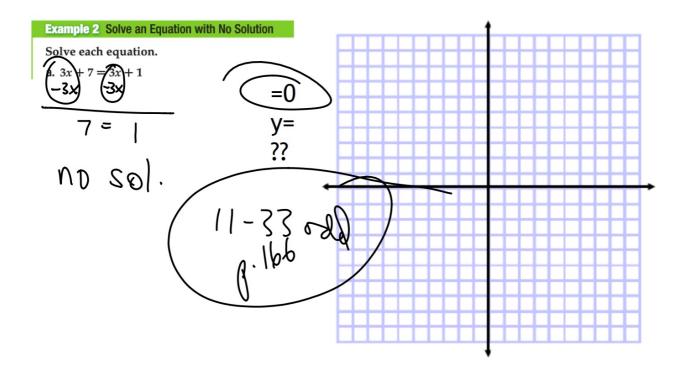
Solve by graphing:

- graph related function
 solution is x-intercept

$$0 = 3x - 6$$





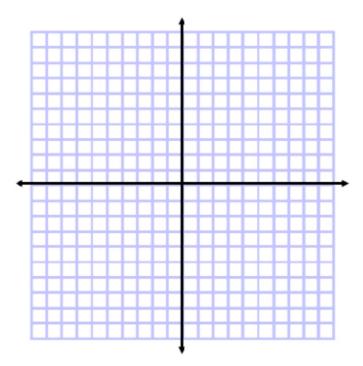


Solve using algebra Solve by graphing

Same answer!

b. 2x - 4 = 2x - 6

Method 2 Solve by graphing.

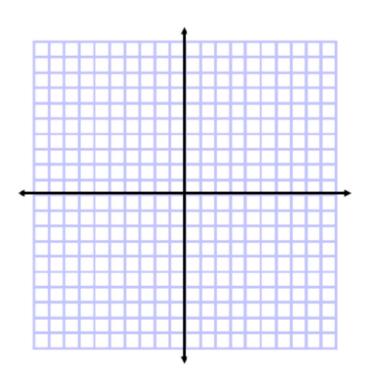


=0 y= ??

GuidedPractice

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

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





What's the code?

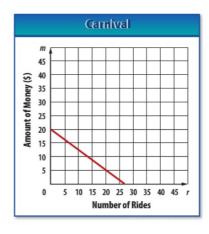
"Solve" x-intercept

"Zero" y-intercept

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?