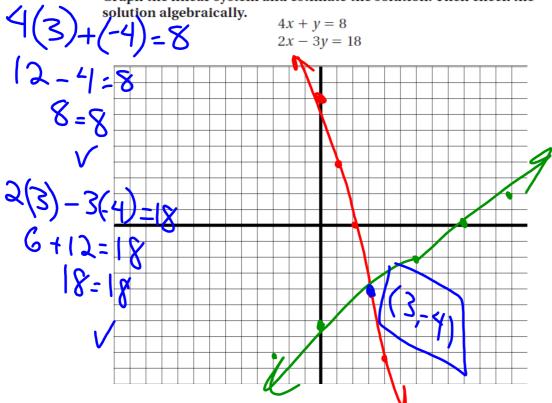
# **3.1** Solve Linear Systems by Graphing

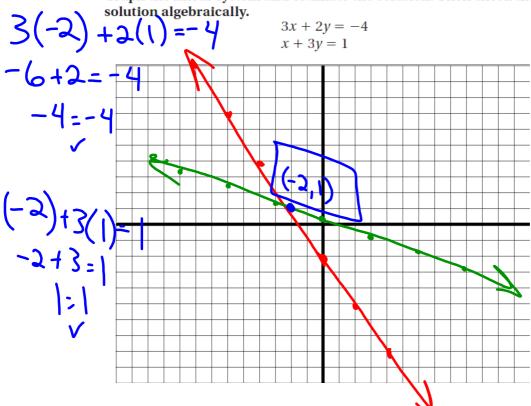
### **EXAMPLE 1** Solve a system graphically

Graph the linear system and estimate the solution. Then check the



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Graph the linear system and estimate the solution. Then check the



Vocab:

consistent at least one solution

Inconsistent- No solution

Independent exactly one solution

Dependent- Many Jointion

#### Classify the systems as consistent/inconsistent and dependent/independent

**Exactly one solution** 

**Infinitely many solutions** 

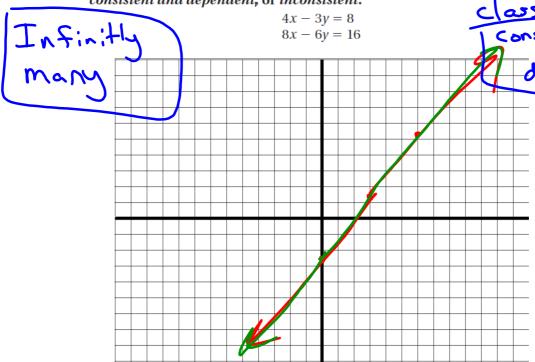
No solution



consistent

## **EXAMPLE 2** Solve a system graphically

Solve the system. Then classify the system as consistent and independent, consistent and dependent, or inconsistent.



# **EXAMPLE 3** Solve a system graphically

Solve the system. Then classify the system as consistent and independent, consistent and dependent, or inconsistent.

no solution

2x + y = 42x + y = 1

Inconsistent

# **EXAMPLE 4**

You ride an express bus from the center of town to your street. You have two payment options. Option A is to buy a monthly pass and pay \$1 per ride. Option B is to pay \$2.50 per ride. A monthly pass costs \$30. After how many rides will the total costs of the two options be the same?

