Ex:) Solve the system using elimination. Check your solution.

Notes:

$$x + 3y = -2$$

$$x - 3y = 16$$

 $\ensuremath{\mathsf{OYO}}\xspace$) Solve the system using elimination. Check your solution.

Notes:

$$-5x + 2y = 13$$

$$5x + y = -1$$

Solve using Elimination

1 which variable you would like to cancel.	
2 one or both equations by a number that causes the variables'	to
become	
3 the equations together, and solve for the remaining variable.	
4. Once you have one variable solved for, to find the other variable.	
Ex:) Solve the system using elimination. Check your solution.	Notes:

OYO:) Solve the system using elimination. Check your solution.

Notes:

$$4x - 5y = -19$$
$$y = -\frac{1}{2}x - 4$$

-6x + 5y = 25x = -2y - 7

Modeling Real Life

Ex:) An airplane flying with the wind can cover a certain distance in 2 hours. The return trip against the wind takes 2.5 hours. How fast is the plane and what is the speed of the air, if the one-way distance is 600 miles?

Notes:

OYO:) It takes a boat 2 hours to travel 24 miles downstream (with the current) and 3 hours to travel 18 miles upstream (against the current). What is the speed of the boat in still water and the speed of the current of the river?

Notes:

Ex:) A chemistry student needs 40 milliliters (mL) of a 14% acid solution. She had two acid solutions, A and B, to mix together to form the 40 mL acid solution. Acid solution A is 10% acid, and acid solution B is 20% acid. How much of each solution should be used?

Notes:

OYO:) Two types of milk, one that is 1% butterfat, and the other that is 3.5% butterfat, are mixed. How many liters of these two different kinds of milk are to be mixed together to produce 10 liters of low-fat milk, which has 2% butterfat?

Notes: