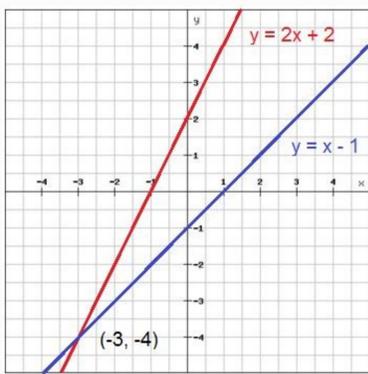


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**Section 3.3 Solving Systems of Inequalities by Graphing**

Solve each system of inequalities by graphing.

$y > -2x + 4$   
 $y < x - 2$

$y = -2x + 4$      $y = x - 2$   
 $m = -2$      $m = 1$   
 $b = (0, 4)$      $b = (0, -2)$

$x > (0, 4)$     Try  $(0, 0)$   
 $0 > -2(0) + 4$      $0 < 0 - 2$   
 $0 > 4$      $0 < -2$   
 false    false

**Basic Algebra Word Problems (continued)**

4) 50 cars and four locomotives weigh 4124 tons. (Each car is identical.) If the locomotives weigh 217 tons, how much does each car weigh?

5) A car's tank holds 14 gallons of gas. At 1 gallon, you stop at the gas station to refuel. If the car uses 3 gallons per hour, when will you refuel?

6) A farmer has 8755. One acre costs \$750 and a bush of clover costs \$20. If the farmer buys one acre, how many bushes of clover can he afford to buy?

7) If 8 loads take a trip, it will cost \$511. However, during the off-season, there is a discount. If it costs for 8 loads \$720, how much was the discount per person? (Bonus: What is the percentage discount?)

8) The sum of 3 consecutive integers is 214. What is the middle integer?

9) The cable company charges \$20.00 per month plus \$1 for each movie rental. If your cable bill is \$111.00, how many movies did you rent?

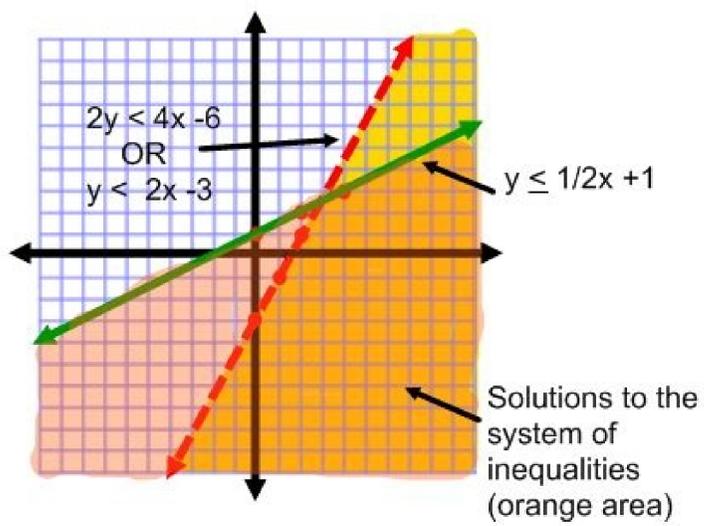
1.  $2y < 4x - 6$   
 $y \leq 1/2x + 1$

Rewrite in slope intercept form:

$$\frac{2y}{2} < \frac{4x - 6}{2}$$

$y < 2x - 3$   
 $y \leq 1/2x + 1$  - already in slope intercept form

Graph and shade each inequality.

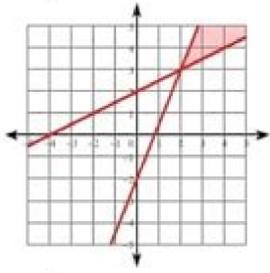


## Solving Systems of Inequalities

Sketch the solution to each system of inequalities.

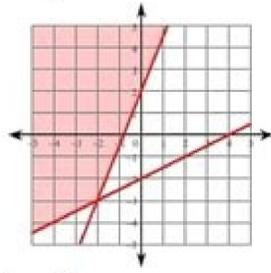
1)  $y \leq \frac{5}{2}x - 2$

$y \geq \frac{1}{2}x + 2$



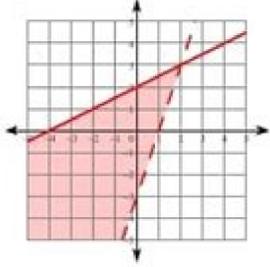
2)  $y \geq \frac{5}{2}x + 2$

$y \geq \frac{1}{2}x - 2$



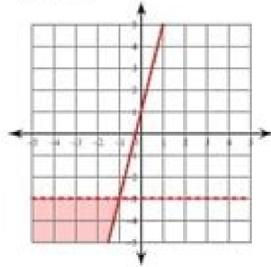
3)  $y \leq \frac{1}{2}x + 2$

$y > 3x - 3$



4)  $y < -3$

$y \geq 4x + 1$



They have more questions to answer and require more steps to find the solution. Any question you create as much as to be activated between the free response format and multiple choice. On the screen they are shown by one to four questions at a time. If the sides of a triangle are labeled 3, 4 and 5, its lengths are really in a 3: 4: 5 ratio. They can be a free or multiple choice and can contain text format Mathematic (equations, expressions, etc.) This function is at the center of our software and is that it makes it so powerful: choose the properties of the questions, not the questions themselves. Suitable for any class with advanced algebra content. There are over 125 topics in all, from equations in more phases to trigonometric identities. Questions created with our products can be added to the existing assignments created with other programs. The graphs can be logical and physical in size. How does it work? Enter your indications to create new types of problems. It is possible to create some questions to be used as examples, then reduce the number of questions to create a task at home. The questions will be automatically repositioned for you: do not cut and paste the assignment together only to use a different card size. Easily give your students enough space to show their work by increasing the spacing. All questions are available for export. Read my example very carefully and study how I performed every step. The bracelets cost \$ 2 and the earrings cost \$ 3. Each graph can graphically have two functions from zero to two. Or you can refresh the old assignments by replacing old questions with new ones. Designed for all levels of students, from the corrective to the advanced one. Most of the questions automatically generated can be changed Increase or proportionally reduce the number of applications in the assignment. That's what personalized questions are for. The diagrams are all carefully designed, except if the answer would be given. date. Accurate diagrams help students obtain an intuitive understanding of corners and measurements. Print assignments on any paper supported by the printer. Prepare the examples with the software and then use a projector to view questions on the tab. Make sure to resize the grill so that both inequalities can be graphically the same grid. When printing an assignment, choose how the answers are shown: on a sheet of response on a sheet of response with only the probabilities in the context (next or within the application) no answer sheet integrates the lessons with high quality graphs and graphic paper of any size. Some are based on common errors that students commit while others are only random but close to the correct response. If you want a question to be slightly different, you can change it. The new questions will comply with the same parameters as the original questions, but will be completely new. If you decide to print an assignment on legal paper, no problem. Here are some tips to help you while you work through your words. Step 4: Sarah knows you sell more than 50 bracelets. From time to time, you will have to insert your question. Very useful as teaching assistance if used in combination with an LCD projector or another display system. If there is a choice you don't like, you can change it. You can do it! Example 1 - Systems of inequalities problem of words Sarah is selling bracelets and earrings to make money for summer holidays. Solution Step 1: highlight the important information in the problem. Sarah is selling bracelets and earrings to make money for summer holidays. Check how each new version is created. Remove the choices, reproach the questions or ask completely new questions. Make sure to appropriate border lines and shading the correct floor for each inequality. Identify the intersection of the two inequalities and answer questions relating to the problem. Write a one To represent this situation. Graph the two inequalities and shade the intersection. Identify a solution. It is possible to change the indications on any type of demand. This is very useful when planning a lesson. You also have control over the margins, on the numbering of the page and on the orientation of the paper. Join two or more positions in one. The multiple choice questions are equipped with intelligent and potentially misleading choices. Pay attention to keywords (highlighted words) and the way in which all inequality has been written according to the problem. You can do it! Click here to switch to systems problems. The questions will be new following exactly from what you taught. Steps to solve a system of inequalities problem of the problem reading the problem and highlight important information. Identify variables. Find a piece of information in the problem you can use to write inequality. Find a different information that you can use to write a second inequality. graph both inequalities on a grid. He must earn at least \$ 500. Write in inequality to represent the revenues of the jewels sold. Sarah knows you see more than 50 bracelets. Don't let yourself be intimidated! You have all the skills you need to solve these problems. If a corner is labeled as 30 °, then it is actually 30 °. But ... Respazio the entire assignment to the desired length with a click. It is also possible that the graphs of the tiles through the Maximize page the use of paper. When you enter systems of inequalities, this is particularly true because you are dealing with two inequalities. How many bracelets and earrings can Sarah sell? You can also save each new version after creation. As you arrive further in Algebra 1, you will discover that the problems of the world they become more complex. A standard order of operational demand that has been modified to be more analytical showed on the left. So complete the problems of practice. This saves time during planning and during the lesson, lesson. It makes it very easy to present long questions or questions with graphs and diagrams. Simplification of algebraic expressions distance, speed, time of words the problems of absolute value graphic value linear equations by graphic the absolute equations graphic equations of grace the graphic systems of graphics of the linear inequalities by solving the graphic systems (2 variables) of resolution of the systems by elimination (2 variables) solving the systems for replacement (2 variables) Equation systems of words of words (2 variables) points in three dimensions that solve the systems with three variables geometric transformations that rationalize the denominators graphic the square functions graphically the square inequalities they have made the factor of square expressions that have made the factor of special square expressions by solving the equations by solving the square roots by solving the equations of resolution of the equations by completing the equations of square resolution with the square formula that multiply Special cases that will be a sum/difference in cubic factoring, all married techniques and conjugated roots and the rational scripture zero/root functions Tere M fundamental theorem of the algebra that solves the polynomial equations of fine behavior and shape of the general graphic designer By adding and subtracting radical expressions that multiply radical expressions that divided radical expressions that connect radical expressions and rational exponents of radical radical radical radicals of radical radicals parabola functions, graphing & parable proprietary, circles of writing equations, graphic circles and proprietary, Elleps of Writing equations, graphic ellipses and ellipse properties, writing hyperpolas equations, graphics and hyperpolas properties, writing equations of square equations exponential functions do not require equivalent logarithms and exponents as inverse the writing registers in terms of other exponential exponential equations Logarithms Logarithmic equations, simple logarithmic equations, logarithmic functions of hard graphics exponential growth and arithmetic and geometric decay medium and degrees-minust-sectors of length of the arc and sectoral area find angles and sides Trig functions of any angular area and laws of the Somms Angular Sams/Difference identity Angular Double Corner/Semicango Champion spaces and the probability of the principle of fundamental counting of independent and independent events, probability of words of independent and dependent probability of events of mutually exclusive events, probability of words Of exchanges mutually exclusive events compared to the probability of combinations with permutations and combinations once you have created an assignment, it is possible to regenerate all his questions with a single click. Export questions such as bitmap images and paste them into your favorite text processing software. When a question is replaced, you get a new similar to the original question. Print more versions of an assignment. The spacing can also be controlled manually. Take one step at a time and think about that you need to answer the question. Home> Speistances> Systems of inequality problems of infinite words Algebra 2 covers all the typical algebra material, starting from some important concepts of algebra 1 and cross the trigonometry. Write an inequality to represent this situation.X> 50 passage 5: graphics the two inequalities and shade the intersection. Or you can save the paper by decreasing the spacing. Check the number of choices that each question has, from two to five. It must earn at least \$ 500.PEP 2: identify your variables. Think about it that you don't know and you have to know to solve the problem. Step 3: write an inequality a The income is the jewels sold. 2x + 3Y> 500's How I hold with this inequality. Use this function while teaching. It easily creates quiz, tests and reviews by combining the assignments from the units and therefore reducing the total to an appropriate length. With a displayed question, you can: change the zoom level - so the students in the rear can read the lines next to the question to help you organize your work if you resolve the question, jump on another question - useful during the review of the Tasks revealed the revealing tasks response / hide the application number and indications. For most of the problems of the real world, the inequalities using the interceptions X and Y. It is possible to regenerate entire assignments, groups of special questions or individual questions. The questions about the tasks will be completely new, but follow exactly from the lesson and it is not necessary to design the questions. still.

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