Solving systems of inequalities worksheet answers

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Handout for Systems of Equations Worksheets This systems of equations worksheet will produce a seven page handout for the students concerning Systems of Equations. You may select which methods will be produced for the handout. This monomials worksheet is a good resource for students in the 5th Grade, 6th Grade, 7th Grade, and 8th Grade. Solving Algebraically Two Variable Systems of Equations Worksheets This systems of equations worksheet will produce problems for solving two variable systems of equations algebraically. You may select which type of method the student should use to solve the problems. This systems of equations worksheet will produce ten problems per page. This systems of equations worksheet is a good resource for students in the 5th Grade, 6th Grade, 7th Grade, and 8th Grade. Solving Graphically Two Variable Systems of Equations Worksheets This systems of equations worksheet will produce problems for solving two variable systems of equations graphically. You may select four different types of problems. This systems of equations worksheet will produce eight problems per page. This systems of equations worksheet is a good resource for students in the 5th Grade, 6th Grade, 7th Grade, and 8th Grade. Solving Graphically Two Variable Systems of Inequalities Worksheets This systems of equations worksheet will produce problems for solving two variable systems of inequalities graphically. You may select four different types of problems. This systems of equations worksheet will produce eight problems per page. This systems of equations worksheet is a good resource for students in the 5th Grade, 6th Grade, 7th Grade, and 8th Grade. A system of linear inequalities consists of a set of two or more linear inequalities with the same variables. The inequalities define the conditions that are to be considered simultaneously. For example,We know that each inequality in the set contains infinitely many ordered pair solutions defined by a region in a rectangular coordinate plane. When considering two of these inequalities together, the intersection of these sets defines the set of simultaneous ordered pair solutions. When we graph each of the above inequalities separately, we have \(y>x-2\) \(y\leq 2x+2\) Figure \(\PageIndex{1}\) Figure \(\PageIndex{2}\) Table \(\PageIndex{1}\) When graphed on the same set of axes, the intersection can be determined. Figure \(\PageIndex{3}\) The intersection is shaded darker and the final graph of the solution set is presented as follows: Figure \(\PageIndex{4}\) The graph suggests that \((3, 2)\) is a solution because it is in the intersection. To verify this, show that it solves both of the original inequalities: \(\color{Cerulean}{Check:}\:\:\color{black}{(3,2)}\) \(\begin{array}{c|c}{Inequality\:1:\quad y>x-2}&{Inequality\:2:\quad y\leq 2x+2}\\{2>3-2}&{2\leq 2(3)+2}\\{2>1\quad\color{Cerulean}{\checkmark}}&{2\leq 8\quad\color{Cerulean}{\checkmark}} \end{array}\) Points on the solid boundary are included in the set of simultaneous solutions and points on the dashed boundary are not. Consider the point \((−1, 0)\) on the solid boundary defined by \(y=2x+2\) and verify that it solves the original system: \(\color{Cerulean}{Check:}\:\:\color{black}{(-1,0)}\) \(\begin{array}{c|c}{Inequality\:1:\quad y>x-2}&{Inequality\:2:\quad y\leq 2x+2}\\{0>-1-2}&{0\leq 2(-1)+2}\\{0>-3\quad\color{Cerulean}{\checkmark}}&{0\leq 0\quad\color{Cerulean}{\checkmark}} \end{array}\) Notice that this point satisfies both inequalities and thus is included in the solution set. Now consider the point \((2, 0)\) on the dashed boundary defined by \(y=x−2\) and verify that it does not solve the original system: \(\color{Cerulean}{Check:}\:\:\color{black}{(2,0)}\) \(\begin{array}{c|c}{Inequality\:1:\quad y>x-2}&{Inequality\:2:\quad y\leq 2x+2}\\{0>2-2}&{0\leq 2(2)+2}\\{0>0\quad\color{red}{x}}&{0\leq\quad\color{Cerulean}{\checkmark}} \end{array}\) This point does not satisfy both inequalities and thus is not included in the solution set. Solutions to a system of linear inequalities are the ordered pairs that solve all the inequalities in the system. Therefore, to solve these systems, graph the solution sets of the inequalities on the same set of axes and determine where they intersect. This intersection, or overlap, defines the region of common ordered pair solutions. Example \(\PageIndex{1}\) Graph the solution set: \(\left\{\begin{aligned} −2x+y&>−4 \\ 3x−6y& ≥6 \end{aligned}\right.\). Solution: To facilitate the graphing process, we first solve for \(y\). 2x-4 \\ y&\leq \frac{1}{2}x-1 \end{aligned}\right.\) For the first inequality, we use a dashed boundary defined by \(y=2x−4\) and shade all points above the line. For the second inequality, we use a solid boundary defined by \(y=\frac{1}{2}x−1\) and shade all points below. The intersection is darkened. Figure \(\PageIndex{5}\) Now we present the solution with only the intersection shaded. Answer: Figure \(\PageIndex{6}\) Example \(\PageIndex{2}\) Graph the solution set: \(\left\{\begin{aligned} −2x+3y&>6 \\ 4x−6y&>12 \end{aligned}\right.\). Solution: Begin by solving both inequalities for \(y\). Use a dashed line for each boundary. For the first inequality, shade all points above the boundary. For the second inequality, shade all points below the boundary. Figure \(\PageIndex{7}\) As you can see, there is no intersection of these two shaded regions. Therefore, there are no simultaneous solutions. Answer: No solution, \(∅\) Example \(\PageIndex{3}\) Graph the solution set: Solution: Figure \(\PageIndex{8}\) After graphing all three inequalities on the same set of axes, we determine that the intersection lies in the triangular region pictured. Answer: Figure \(\PageIndex{9}\) The graphic suggests that \((−1, 1)\) is a common point. As a check, substitute that point into the inequalities and verify that it solves all three conditions. \(\color{Cerulean}{Check:}\:\:\color{black}{(-1,1)}\) \(\begin{array}{c|c|c} {Inequality\:1:}&{Inequality\:2:}&{Inequality\:3:}\\{y\geq -4}&{y

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