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Graphing lines using x and y intercepts worksheet answer sheets

What does each intercept represent? x-intercept :2x - 4y = 82x - 4(0) = 82x - 0 = 82x = 82x/2 = 8/2x = 4(4, 0) y-intercept :2x - 4y = 82(0) - 4y = 80 - 4y = 8-4y = 8-4y/(-4) = 8/(-4)y = -2(0, -2) Step 2 :Plot (4, 0) and (0, -2).Connect with a straight line. Islamic scholars began to give the science of working with variables a name. Do you prefer to use the method of plotting points or the method using the intercepts to graph the equation ? Join the two points with a line to form the graph. At , he has been gone 15 hours and has 0 miles left to go. Answer : Neither time nor distance can be negative, so choose several nonnegative values for x. Example: Draw a line with x-intercept, -1 and y-intercept, -1 Based on the graph, find the x-intercepts and y-intercepts of the lines listed below. 4. Learn about intercepts and how to solve for them in a given equation. Answer : Step 1 :Find the intercepts. Example: y = x + 4 Find the x and y intercepts of the line. x051015 f(x) = 4500 - 300x4500300015000 Graph the ordered pairs. Putting algebra to use in your everyday life can help you in so many ways. At , he has been gone 0 hours and has 1000 miles left. Graphing Lines Using Intercepts Learn to graph a given linear equation using the intercept method. The x-intercept is the point on the graph where the line crosses the x-axis, so the x-intercept will always have a y-coordinate of 0, and the y-intercept is the point on the graph where the line crosses the y-axis, so the y-intercept will always have an x-coordinate of 0. x-intercept :2x + 3y + 6 = 02x + 3(0) + 6 = 02x + 0 + 6 = 02x + 6 = 02x = -62x/2 = -6/2x = -3(-3, 0) y-intercept :2x + 3y + 6 = 02(0) + 3y + 6 = 00 + 3y + 6 = 03y + 6 = 03y = -63y/3 = -6/3y = -2(0, -2) Step 2 :Plot (-3, 0) and (0, -2).Connect with a straight line. 5. Example: Find the x and y intercepts of the line for the equation 2y = 4x + 5 Using the graph and equation given, find the x-intercept and y-intercept of the given line. x-intercept :2y = 12 - 3x/22(0) = 12 - 3x/20 = 12 - 3x/20 = 12 - 3x/212 = 3x/212(2/3) = (3x/2)(2/3)8 = x(8, 0) y-intercept :2y = 12 - 3x/22y = 12 - 3(0)/22y = 12 - 0/22y = 12 - 02y = 122y/2 = 12/2y = 6(0, 6) Step 2 :Plot (8, 0) and (0, 6).Connect with a straight line. What steps will you take to improve? Graph a Line Using the Intercepts In the following exercises, graph using the intercepts. 3. You figure out what the variables in an equation are by solving it. The x-intercept is the point on the graph where the line crosses the x-axis. Try the free Mathway calculator and problem solver below to practice various math topics. They called this type of math the "science of restoration and balancing," and the Arabic word for "restoration," or "al-jabru," became the root word for the word "algebra." As mathematicians in the Middle Ages experimented with the principles of algebra, they realized they could solve equations for two- and three-dimensional items, which led to even more discoveries of what algebra could do. How to graph a line using the x and y intercepts? The y– axis represents the number of gallons of gas in the truck's gas tank. To find the x-intercept replace y with 0 in the equation and solve for x. Why? Graph this function and find the intercepts. Explain what the x– and y– intercepts mean for Ozzie. Use the function to generate ordered pairs. Therefore, 2 squared plus 2 squared equals 8. 6. Using algebra is like exercise that helps make your brain stronger. Then, 9 plus 9 equals 18. Find the x– and y– intercepts. To use another example, let's see what happens when x equals 3. Kindly mail your feedback to v4formath@gmail.comWe always appreciate your feedback. Answer :The graph intersects the x-axis at (-4, 0). The x-intercept is -4.The graph intersects the y-axis at (0, -3).The y-intercept is -3. The x– axis on the graph below shows the number of miles Ozzie drove since filling up. In that case, x squared equals 9. 7. 1. If x equals 2, then x squared, or x times itself, equals 4. This the time when the tram reaches the peak (distance = 0). Detailed Answer Key 1. A Brief History of Algebra Since ancient times, mathematicians have worked with unknown variables in different ways. Explain what the x– and y– intercepts mean for Damien. Answer :The graph intersects the x-axis at (-2, 0). The x-intercept is -2.The graph intersects the y-axis at (0, 4).The y-intercept is 4.3. Answer : To find the x-intercept, replace y with 0 and solve for x.3x - 2y = 123x - 2(0) = 123x - 0 = 123x = 123x/3 = 12/3x = 4The x-intercept is 4. Shows more examples of how to graph lines by making a table or chart of ordered pairs, or using the x and y intercept method. Find the x– and y– Intercepts from an Equation of a Line In the following exercises, find the intercepts for each equation. Find the x-intercept and y-intercept of the given lines. How do you find the x– intercept of the graph of ? The x– axis on the graph below shows the time in hours since Damien left Chicago. Example: 8y = 2x - 4 Find the x and y intercepts of the line. Its rate is 300 meters per minute. Algebra is a versatile form of math that you use more often than you might think and, sometimes, you don't even realize that you're solving math problems. You can use algebra to figure out the dimensions of a room or even as you make up your shopping list. 9. 10. Connect the points with a line. When you're trying to figure out how to split a restaurant bill or how much gas you can buy for a certain amount. Related Topics: More Lessons for Grade 7 Math Worksheets Videos, worksheets, stories and songs to help Grade 7 students learn to graph lines by x and y-intercepts. Answer each of the following questions. Please submit your feedback or enquiries via our Feedback page. Plot the x-intercept and the y-intercept. After completing the exercises, use this checklist to evaluate your mastery of the objectives of this section. 2. Algebra can also help students with critical thinking and logic skills. Road trip. Educators consider algebra the gateway to higher forms of math, so if you or your child wants to explore a career in science or technology, algebra can unlock so many more new ideas. These quantities are called variables, and you can figure out what those variables mean when you use algebra. Equations are like sentences that explain the relationships between numbers and variables. Algebra in Everyday Life You may have heard people say that you'll never use algebra in your everyday life, but you'd be surprised at how often you use algebra. Graphing Lines using the x-intercept and y-intercept How to find the x and y intercepts of a line, and how to plot those points to graph the line. onlinemath4all.com Algebra comes in handy when you're trying to figure out how much a group of items costs per item. Example: y - 1 = x Based on the information provided, answer each of the following questions. Why It's Important to Learn Algebra Learning algebra is important for more than just solving equations. 8. When you solve an equation in algebra, you break it down to its simplest form and discover what the variables mean. x-intercept :y = x/4 + 10 = x/4 + 1-1 = x/4-4 = x(-4, 0) y-intercept :y = x/4 + 1y = 0/4 + 1y = 0 + 1y = 1(0, 1) Step 2 :Plot (-4, 0) and (0, 1).Connect with a straight line. [?] Subscribe To This Site Gerd Altmann/Pixabay If you're trying to figure out what x squared plus x squared equals, you may wonder why there are letters in a math problem. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. MORE FROM REFERENCE.COM Identify the x– and y– Intercepts on a Graph In the following exercises, find the x– and y– intercepts on each graph. The y-intercept is the point on the graph where the line crosses the x-axis. We welcome your feedback, comments and questions about this site or page. Example: Draw a line with x-intercept, 9, that is parallel to the line y = 4x - 3 Problems 1-4 : Find the x- and y-intercepts. Problem 1 : Problem 2 : Problem 3 : 3x - 2y = 12Problem 4 : 5y = 3x + 30 Problems 5-9 : Use intercepts to graph the line described by each equation. That's because, in the case of an equation like this, x can be whatever you want it to be. The function f(x) = 4500 - 350x gives the tram's distance in meters from the top of the peak after x minutes. x-intercept :2x - y = 42x - 0 = 42x = 42x/2 = 4/2x = 2(2, 0) y-intercept :2x - y = 42(0) - y = 40 - y = 4-y = 4y = -4(0,-4) Step 2 :Plot (2, 0) and (0, -4).Connect with a straight line. Algebra uses symbols — in most cases, letters — to represent quantities that don't necessarily have the same value all the time. Problem 5 : 2x - 4y = 8Problem 6 : y = x/4 + 1Problem 7 : 2x - y = 4Problem 8 : 2x + 3y + 6 = 0Problem 9 : y = 12 - 3x/2Problem 10 :A tramway travels a distance of about 4500 meters to the top of the peak. Then you add that number to itself to get your final answer.Examples of X Squared Plus X Squared Here are some examples of that equation to make it easier to understand. The beauty of this equation is that x can equal anything, and you can solve it using whatever value you want for x. To find the y-intercept replace x with 0 in the equation and solve for y. To find out what x squared plus x squared equals, you have to multiply x times itself. Modern scholars have found even more complex equations that algebra can solve. Ozzie filled up the gas tank of his truck and headed out on a road trip. Add four to itself, and you get 8. To find the y-intercept, replace x with 0 and solve for y.5y = 3x + 305(0) = 3x + 300 = 3x + 30-30 = 3x-30/3 = 3x/3-10 = xThe y-intercept is 6. To find the x-intercept, replace x with 0 and solve for y.3x - 2y = 123(0) - 2y = 120 - 2y = 12-2y(-2) = 12/(-2)y = -6The y-intercept is -6. Math that Uses Letters We call mathematics that uses letters to take the place of different values algebra. What does this checklist tell you about your mastery of this section? Then graph the line: x + 2y = 1 Follow the steps given to solve: Draw a line with y-intercept, 6, and slope is -4. Answer : To find the x-intercept, replace y with 0 and solve for x.5y = 3x + 305(0) = 3x + 300 = 3x + 30-30 = 3x-30/3 = 3x/3-10 = xThe x-intercept is -10. • y-intercept : 4500. Complete the following problems, then put your answer in the "My Answer" box. Example: 8y = 5x - 2 : also 4 less than a number n is thirty. Damien is driving from Chicago to Denver, a distance of 1000 miles. It also shows how to decide which method is easiest for a given equation. Example: 2y = 3x + 2 Follow the steps to find the x and y intercepts of the line: y = 2x + 6 For each problem find the x and y intercepts of the line, then check your answers and add up your total score. This is the starting distance from the top (time = 0).• x-intercept : 15. The y– axis represents the distance he has left to drive.

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