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Distance formula worksheet answer with work

We can utilize the Pythagorean Theorem to find the distance between any two points in the plane. Consider the figure below. The line segment contains the endpoints (x_1, y_1) and (x_2, y_2) . We can construct a right triangle from this and draw some conclusions. We can determine that the third coordinate of the triangle, that is, the coordinate located at the vertex of the right angle, is (x_2, y_1) . Then the length of the horizontal leg of the triangle is $(x_2 - x_1)$ and the length of the vertical leg of the triangle is $(y_2 - y_1)$. Then if we call the hypotenuse d (for distance), we can determine the distance d between the two given coordinates. We have $(d^2) = ((x_2 - x_1)^2) + ((y_2 - y_1)^2)$. So that $(d = \sqrt{((x_2 - x_1)^2) + ((y_2 - y_1)^2)})$. The formula above is known as the distance formula. We can use it to find the distance d between any two points in the plane. Let's look at an example. Find the distance between the points $(-8, 6)$ and $(-5, -4)$. I label my coordinates and plug them into the distance formula. Here $(x_1 = -8)$, $(x_2 = -5)$, $(y_1 = 6)$ and $(y_2 = -4)$. Then the distance d between the two points is $(d = \sqrt{((x_2 - x_1)^2) + ((y_2 - y_1)^2)}) = \sqrt{((-5) - (-8))^2 + ((-4) - 6)^2} = \sqrt{(3)^2 + (-10)^2} = \sqrt{9 + 100} = \sqrt{109}$. So the distance between $(-8, 6)$ and $(-5, -4)$ is $(\sqrt{109})$ units. Let's do one more example. We want to find the distance between the points $(6, -6)$ and $(-3, -3)$. We will do the same technique as we did in the last example. Here $(x_1 = 6)$, $(x_2 = -3)$, $(y_1 = -6)$, and $(y_2 = -3)$. Then, by the distance formula, we have the distance d between the two points is $(d = \sqrt{((x_2 - x_1)^2) + ((y_2 - y_1)^2)}) = \sqrt{((-3) - 6)^2 + ((-3) - (-6))^2} = \sqrt{(-9)^2 + (3)^2} = \sqrt{81 + 9} = \sqrt{90} = \sqrt{9 \cdot 10} = 3\sqrt{10}$. Then the distance between $(6, -6)$ and $(-3, -3)$ is $(3\sqrt{10})$ units. Below you can download some free math worksheets and practice. Stock up your library with this collection of free and printable distance formula worksheets that walk grade 8 and high school students through a variety of exercises that can be solved with the application and manipulation of the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$, which is a derivative of the Pythagorean theorem. Kick-start your journey with measuring line segments drawn on Cartesian planes, move on to calculating the distance between two sets of coordinates, follow it up with finding the side lengths of geometrical shapes, figure out the missing coordinates, identify the types of triangles, and bolster your skills in applying the formula efficiently. Our pdf exercises are a great practice resource that come along with an answer key to facilitate easy evaluation. These distance formula worksheets are ideal for students in grade 8 and high school. CCSS: 8.G, HSG-GPE Practice the questions given in the worksheet on distance formula. 1. Find the point on the x-axis which is equidistant from the point $(5, 4)$ and $(-2, 3)$. 2. Find the point on the y-axis whose from $(3, 2)$ and $(-1, 3)$ and $(-1, 3/2)$ are in the ratio $2 : 1.3$. If the distance of the point (a, b) from $(-3, 0)$ are 4 each, find a and b . 4. Find a if the distance of the point $(4, 1)$ from the point $(3, a)$ is $\sqrt{10}$. 5. The point B has the coordinates $(0, -4)$. Find the coordinates of the point A on the x-axis if the distance between A and B is 5 units. 6. Find points on the x-axis, each of which is at a distance of 10 units from the point $P(11, -8)$. 7. Find the point on the y-axis which is equidistant from the points $A(-4, 3)$ and $B(5, 2)$. 8. If the point $A(a, 2)$ is equidistant from the points $B(8, -2)$ and $C(2, -2)$, find the value of a . 9. Find the ordinate of a point whose abscissa is 10 and which is at a distance of 10 units from the point $P(2, -3)$. 10. Find all possible values of a for which the distance between the points $A(a, -1)$ and $B(5, 3)$ is 5 units. Answers for the worksheet on distance formula are given below: Answers: 1. $(2, 0)$ 2. $(0, 8/3)$, $(0, 0)$ 3. $a = 0$, $b = \pm \sqrt{7}$ 4. 4, -2 5. $A = (\pm 3, 0)$ 6. $(5, 0)$, $(17, 0)$ 7. $(0, -2)$ 8. $a = 5$ 10. $a = 8$ or $a = 2$ ● Distance and Section Formulae 10th Grade Math From Worksheet on Distance Formula to HOME PAGE Didn't find what you were looking for? Or want to know more information about Math Only Math. Use this Google Search to find what you need. Share this page: What's this? This worksheet explains how to find the distance between two points. A sample problem is solved, and two practice questions are provided. Page 2 [Home] This worksheet is a PDF document. You will need Adobe Acrobat Reader to view the worksheet or answers. Each worksheet may consist of several pages, scroll down to the see everything.

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