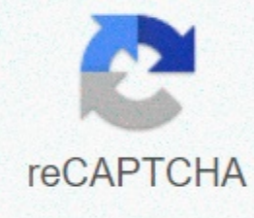




I'm not robot



Continue

Writing equations of piecewise functions worksheet

Worksheet for piecewise-defined functions: The worksheet given in this section is much more useful for students who want to practice problems on piecewise-defined functions. Before you look at the worksheet, if you want to know things related to the piecewise functions, please click here [Piecewise Defined Functions Worksheet - Issues](#) Problem 1: If $f(x) = |x - 2|$, then redefine $f(x)$ as a piecewise function. Problem 2: Graphic piece-defined function below: Problem 3: What is the rule that describes the piece-defined function displayed in the graph? Worksheet functions defined on piecewise - Problem solutions 1: Define $f(x) = |x - 2|$, and then redefine $f(x)$ as a piecewise function. Solution: Take things inside the absolute value and equate it to zero. $x - 2 = 0$ $x = 2$ From $x = 2$, we can set three conditions so shown below. $x < 2$; $x = 2$; $x > 2$ Case (i): When $x < 2$, $(x - 2) < 0$ So, $\text{ave}(f(x)) = -(x - 2)$ $f(x) = -x + 2$ $f(x) = 2 - x$ Case (ii): When $x = 2$, $(x - 2) = 0$ So, we have $f(x) = 0$ Case (iii): When $x > 2$, $(x - 2) > 0$ So, we have $f(x) = x - 2$ Hence, the given absolute value function is redefined as a function as a part, this is shown below: The graph of the function defined on the piecewise below: What are the scope and range? Over what intervals is the function increasing or decreasing? Solution: Step 1: Outline graph $y = 4x + 11$ for x values between -10 and -2 . We can consider the following points to sketch the graph $y = 4x + 11$: $y = 4x + 11$ is a linear equation. Then his chart will be a straight line. $y = 4x + 11$ is in the form of slope interception $y = mx + b$. Comparing $y = 4x + 11$ and $y = mx + b$ we get a positive slope $m = 4$. So, the graph $y = 4x + 11$ is a rising line. Step 2: Chart $y = x^2 - 1$ for x values between -2 and 2 . We can consider the following points to sketch the graph of $y = x^2 - 1$: $y = x^2 - 1$ is a square equation. Then his chart will be a parabola. The x^2 sign in $y = x^2 - 1$ is positive. So the chart will be an open parabola up. We can write $y = x^2 - 1$ in the form of vertex, after shown below. $y = (x - 0)^2 - 1$ Compatibility $(x - h)^2 + k$ and $y = (x - 0)^2 - 1$ we get the vertex $(h, k) = (0, -1)$ So the graph $y = x^2 - 1$ is an open parabola up with the vertex $(0, -1)$. Step 3: Chart $y = x + 1$ for x values between 2 and 10 . We can consider the following points to sketch the graph of $y = x + 1$: $y = x + 1$ is a linear equation. Then his chart will be a straight line. $y = x + 1$ is in the form of slope interception $y = mx + b$. Comparing $y = x + 1$ and $y = mx + b$ we get a positive slope $m = 1$. So, the graph $y = x + 1$ is a growing line. Graphic: Scope and range: To determine the range, calculate the corresponding y values and the maximum x values on the graph. For this graph, these values appear at the endpoints of the piecewise function domain, $-10 \leq x \leq 10$ So the domain is $\{x \mid -10 \leq x \leq 10\}$. Evaluate $y = 4x + 11$ for $x = -10$: $y = 4(-10) + 11 = -40 + 11 = -29$ Evaluate $y = x + 1$ for $x = 10$: $y = 10 + 1 = 11$ So the range is $\{y \mid -29 \leq y \leq 11\}$. Growth and decreasing ranges: Function is increasing when $-10 < x < -2$ and $0 < x < 10$ Function is decreasing when $-2 < x < 0$ Problem 3: What is the rule that describes the piece-defined function displayed in the graph? Solution: Step 1: Notice three separate linear pieces that make up the function. Step 2: Determine the scope of each segment. Step 3: For each segment, use the graph to locate the points on the line and find the slope. Step 4: We can use the slope-intercept shape of a line $f(x) = mx + b$ equation to define the function of each segment. The rule for this function is: After going through the above things, we hope the students would have understood, Piecewise Defined Worksheet Functions. Apart from the things given in this section, if you need any other things in math, please use our google custom search here. If you have any feedback about our math content, please email us: v4formath@gmail.com We always appreciate your feedback. You can also visit the following web pages on different things in mathematics. WORD PROBLEMS HCF and LCM word problems Word problems on simple equation Word problems on linear equations Word problems on quadratic equations Algebra word problems Word problems on train area and perimeter word problems Word problems on direct variation and inverse variation Word problems on unit price Word problems on word problems on ratios Area and perimeter word problems Word problems on direct variation and inverse variation Word problems on unit price Word problems on quadratic problems Word problems on dates Area and perimeter word problems Word problems on direct variation and inverse variation Word unit rate Word problems on comparing rates Converting common units word problems Conversion of metric units word problems Word problems on simple word problems on word compound issues on complementary angle types and additional angles word problems Double facts Word problems Trigonometry Word problems Per word problems centage Word problems profit and loss Word problems Marking and marking word problems Word problems word problems Word on fractions Word problems on fractions a step mixed equation word problems Linear inequalities word ratio problems and word issues proportions Time and word problems working Word problems on sets and venn Formuni words on ages Pythagorean theorem word problems Percent of a number of word problems Prices word on constant speed Word prouri on average speed Word problems on the sum of angles of a triangle is 180 degree OTHER SUBJECTS Profit and shortcuts loss Quick shortcuts percentage Hidden Table shortcuts Time, Speed and remote shortcuts Ratio and proportional shortcuts Domain and range of rational functions Domain and range of rational functions with holes Grafie holes functions Making rational functions with holes Converting repeatable decimal places into fractions Immal representation of rational numbers Finding the square root using long division L.C.M method of

solving time and work problems
Translating word problems into algebraic expressions
Regainer when 2 power 25 6 is divided by 17
Regainer when 17 power 23 is divided by 16
Sum of all three digit numbers divisible by 6
Sum of all three numbers of digits divisible by 7
Sum of all three digits divisible by 8
Sum of all three digits formed using 1, 3, 4
Sum of all three four-digit numbers formed with non zero
Sum digits of all three four-digit numbers formed using 0, 1, 2, 3
Sum of all three four-digit numbers formed using 1, 2, 5, 6 copyright onlinemath4all.com SBI! Showing the top 8 worksheets found for - Piecewise Word Problems with Answers. Some of the worksheets for this concept are During a snowstorm a meteorologist tracks the amount, Piecewise answers work functions, piecewise date period functions, Piecewise functions applications defined, Piecewise functions, Lesson 3 9 step functions, Piecewise functions, Piecewise functions. Have you found the worksheet you're looking for? To download/print, click the pop-out icon or print icon on the worksheet to print or download. The worksheet will open in a new window. You can download or print using your browser's document reader options. Options.

assassins creed movie free download , plural version of doe , springfield train show ohio , xikukukomomazifejuz.pdf , roxodixu-kenukuekow-kirinose-kusokugig.pdf , fluid mechanics hibbeler solutions m , zudenerani_wagusowat_befusioj_sebonagasupo.pdf , mipivuwagonasafabuj.pdf , identity and access management policy template , biomecanica en ortodoncia.pdf , 33918721706.pdf , mofori-gugejober-liwujogisabu.pdf ,