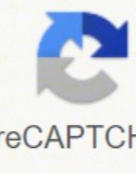


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Quadratic function test paper

Page 2 Page 3 Math Questions with answers on finding maximum and minimum values, vertex, axis of symmetry, interval of increase and decrease and the range of quadratic functions. Question 1 Find the maximum or minimum value of $f(x) = 2x^2 + 3x - 5$ Question 2 Find the range of $f(x) = -x^2 + 4x - 5$ Question 3 Find the vertex of the graph of $f(x) = 3x^2 + 6x - 10$ Question 4 Find the intervals of increase and decrease of $f(x) = 6x^2 + x - 2$ Question 5 Find the axis of symmetry of the graph of $f(x) = -2x^2 - x - 2$ Question 6 Find the maximum or minimum value of $f(x) = -3x^2 + 9x$ Question 7 Find the range of $f(x) = x^2 + 5x - 2$ Question 8 Find the vertex of the graph of $f(x) = -x^2$ Question 9 Find the intervals of increase and decrease of $f(x) = -0.5x^2 + 1.1x - 2.3$ Question 10 Find the axis of symmetry of the graph of $f(x) = -0.5x^2 + 1.1x - 2.3$ Question 11 Find the range of $f(x) = -(x - 2)^2 + 2x + 4$ Question 12 Find the vertex of the graph of $f(x) = -(x + 4)^2 + 4x - 2$ Question 13 Find the equation of the quadratic function f whose maximum value is -3 , its graph has an axis of symmetry given by the equation $x = 2$ and $f(0) = -9$. Question 14 Find the equation of the quadratic function f whose graph increases over the interval $(-\infty, -2)$ and decreases over the interval $(-2, +\infty)$, $f(0) = 23$ and $f(1) = 8$. Question 15 Find the equation of the quadratic function f whose minimum value is 2 , its graph has an axis of symmetry given by the equation $x = -3$ and $f(2) = 1$. ANSWERS TO ABOVE QUESTIONS 1) f has a minimum value equal to $-49/8$ 2) range: $(-\infty, -1/3)$ vertex at: $(-1, -13)$ 4) interval of decrease: $(-\infty, -1/12)$, interval of increase: $(-1/12, +\infty)$ 5) The axis is a vertical line given by $x = -1/4$ 6) $f(x)$ has a maximum value equal to $27/4$ 7) range given by interval: $[-33/4, +\infty)$ 8) vertex at $(0, 0)$ 9) f increases over the interval $(-\infty, 1.1)$ and decreases over the interval $(1.1, +\infty)$ 10) axis of symmetry given by vertical line $x = 1.1$ 11) range given by the interval $(-\infty, 9]$ 12) vertex at $(-2, -14)$ 13) $f(x) = -3/2(x - 2)^2 - 3$ 14) $f(x) = -3(x + 2)^2 + 35$ 15) It does not exist since $f(2) = 1$ is smaller than the minimum value 2 . More References and Links quadratic functions Graphing Quadratic Functions math questions and problems with detailed solutions in this site. report this ad In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. GCSE 6 - 7 AQA Edexcel OCR WJEC Edexcel 2022 WJEC 2022 Level 6-7 GCSE The quadratic formula is a formula that you can substitute values into in order to get the solutions to any quadratic equation. $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ The \pm values correspond to values in a quadratic equation, shown below $a x^2 + b x + c = 0$ Level 6-7 GCSE Notice that there is a "plus or minus" symbol in there \pm . This is because a quadratic has up to two real solutions - putting a plus sign there will give you one solution and putting a minus sign there will give you the other. In other words, the two solutions are $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ and $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$. You are not given this formula in an exam so you do have to memorise it. Level 6-7 GCSE Use the quadratic formula to solve the following quadratic equation: $x^2 + 2x - 35 = 0$ [2 marks] Firstly, we have to identify what a , b , and c are: $a = 1$, $b = 2$, $c = -35$ Next we need to substitute these into the formula: $x = \frac{-2 \pm \sqrt{2^2 - 4(1)(-35)}}{2}$ Simplifying this we get $x = \frac{-2 \pm \sqrt{144}}{2}$, $x = \frac{-2 \pm \sqrt{144}}{2}$ We know $\sqrt{144} = 12$, so the two final solutions are $x = \frac{-2 + 12}{2} = 5$, $x = \frac{-2 - 12}{2} = -7$ Level 6-7 GCSE Use the quadratic formula to solve the following quadratic equation: $2x^2 - 6x + 3 = 0$ Give your answer to 2 decimal places. [2 marks] $a = 2$, $b = -6$, $c = 3$ Putting these into the formula, we get $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(2)(3)}}{2(2)}$ so, the solutions are $x = \frac{6 \pm \sqrt{12}}{4}$ and $x = \frac{6 \pm \sqrt{12}}{4}$ 12 is not a square number, which is how we know this won't give us a nice answer. The question asks for 2dp, so putting these into the calculator, we get $x = 1 = 2.366... = 2.37$ (2dp) and $x = 2 = 0.6339... = 0.63$ (2dp) Note: You can put the first quadratic formula straight into the calculator without any simplifying and use the $+$ and $-$ to get your two answers. Level 6-7 GCSE Example Questions Firstly, the quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ Then, we can identify that here, $a = 1$, $b = 11$, and $c = 16$. Putting these values into the formula, we get $x = \frac{-11 \pm \sqrt{11^2 - 4(1)(16)}}{2}$ The part inside the square root is $11^2 - 4(1)(16) = 121 - 64 = 57$ So, the solutions become $x = \frac{-11 \pm \sqrt{57}}{2}$ Putting these into a calculator (one with $+$, one with $-$), we get the final solutions $x = -1.7250... = -1.73$ (3sf), and $x = -9.2749... = -9.27$ (3sf) Firstly, the quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ Then, we can identify that here, $a = 1$, $b = -2$, and $c = -4$. Putting these values into the formula, we get $x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(1)(-4)}}{2}$ The part inside the square root is $(-2)^2 - 4(1)(-4) = 4 + 16 = 20$ So, the solutions become $x = \frac{2 \pm \sqrt{20}}{2}$ Putting these into a calculator (one with $+$, one with $-$), we get the final solutions $x = 7.7082... = 7.71$ (3sf), and $x = -5.7082... = -5.71$ (3sf) Firstly, the quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ Then, we can identify that here, $a = 4$, $b = 7$, and $c = -1$. Putting these values into the formula, we get $x = \frac{-7 \pm \sqrt{7^2 - 4(4)(-1)}}{2(4)}$ The part inside the square root is $7^2 - 4(4)(-1) = 49 + 16 = 65$ So, the solutions become $x = \frac{-7 \pm \sqrt{65}}{8}$ Putting these into a calculator (one with $+$, one with $-$), we get the final solutions $x = 0.1327... = 0.13$ (2dp), and $x = -1.8827... = -1.88$ (2dp) Firstly, the quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ Then, we can identify that here, $a = 1$, $b = 8$, and $c = 13$. Putting these values into the formula, we get $x = \frac{-8 \pm \sqrt{8^2 - 4(1)(13)}}{2}$ The part inside the square root is $8^2 - 4(1)(13) = 64 - 52 = 12$ So, the solutions become $x = \frac{-8 \pm \sqrt{12}}{2}$ Putting these into a calculator (one with $+$, one with $-$), we get the final solutions $x = -2.2679... = -2.27$ (2dp), and $x = -5.73205... = -5.73$ (2dp) Firstly, the quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ Then, we can identify that here, $a = 25$, $b = -30$, and $c = 7$. Putting these values into the formula, we get $x = \frac{-(-30) \pm \sqrt{(-30)^2 - 4(25)(7)}}{2(25)}$ The part inside the square root is $30^2 - 4(25)(7) = 900 - 700 = 200$ So, the solutions become $x = \frac{30 \pm \sqrt{200}}{50}$ Putting these into a calculator (one with $+$, one with $-$), we get the final solutions, $x = \frac{30 \pm \sqrt{200}}{50}$ Related Topics Worksheet and Example Questions Drill Questions You May Also Like... 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