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Algebra 1 regents june 2019 answers

(Common Core) Regents high school exam in June 2019. Related: More lessons for high school exam Regents More lessons for Algebra Follow questions from the past work of Regents High School Algebra I June 2019 Exam (pdf). Scroll down the page for step-by-step solutions. Algebra 1 - June 2019 Regents - Questions and Solutions 1 - 12 1. The expression $w^4 - 36$ is equivalent to 2. If $f(x) = 4x + 5$, what is the value $f(-3)$? 3. What relationship is not a function? 4. Considering: $f(x) = (x - 2)^2 + 4$ $g(x) = -(x - 5)^2 + 4$ Compared to graph $f(x)$, the chart $g(x)$ is 5. Students are asked to write $6x^5 + 8x - 3x^3 + 7x^7$ in standard form. 6. Function f is shown in table below 7. What expression results in a rational number? 8. Polynomial function is grafted below 9. When solving $p^2 + 5 = 8p - 7$, Kate wrote $p^2 + 12 = 8p$. The property she used was built on 10 October 1945. David wanted to go on an amusement park ride. A banner posted at the entrance said You must be taller than 42 inches and no more than 57 inches tall for this ride. What inequality would model the height, x , required for this amusement park ride? 11. What situation can be modeled with linear function? 12. Jenna reviewed her upper class to see if they preferred pizza or burgers. The results are summarized in the table below. Show Step-by-Step Solutions Algebra 1 - June 2019 Regents - Q&A 13 - 24 13. When $3a + 7b \geq 2a - 8b$ solved for a , the result is 14. The following are three functions. 15. Nicci's sister is 7 years less than double Nicci age, a . Sum of Nicca's age and sister's age is 41. What equation represents this relationship? 16. The population of a small town over four years was recorded on the table below, where in 2013 [The population was rounded up to the nearest person] on 17 October 2014. When written in factor form, $4w^2 - 11w - 3$ is the equivalent of 18. Which ordered pair does not represent the dot in the chart $y = 3x^2 - x + 7$? 19. In view of the Three courses: What are the arithmetic sequences? 20. The store sells beef packages. Function $C(w)$ represents the cost, in dollars, of a package of beef weighing w pounds. The most separate domain for this function would be the 21st century. Roots $x^2 - 5x - 4 = 0$ are 22. The following table shows the heights, in inch, of players on the New York Knicks' 2015-2016 introductory roster on March 23, 2016. The bacterial population can be modeled by the function $f(t) = 1000(0.98)^t$, where t represents the time since the population began to deteriorate, and $f(t)$ represents the population of the remaining bacteria in t time. What is the rate of decay for this population? 24. Bamboo plants can grow 91 centimeters per day. What is the approximate growth of the plant, in inches per hour? Show Step-by-Step Solutions Algebra 1 - June 2019 Regents - Questions and Solutions 25 - 37 25. Solve algebraic for x : 26. If $C = G - 3F$, find a trinomial representing C when $F = 2x^2 + 6x - 5$ and $G = 3x^2 + 4$. 27. Chart the next function in the direction of the piece on the axis set below. 28. Solve $5x^2 = 180$ algebraic. 29. The blizzard occurred on the East Coast during January 2016. Snow totals from the storm have been recorded for Washington, D.C. and are shown in the table below. What interval, from 1.m to 12 or 6 .m to 3 p.m..m., has the highest snow speed, in inches per hour? Justify your answer. 30. The formula for the volume of the cone is $V = \frac{1}{3}h$. Solve the equation by h in terms of V , r π . 31. With respect to the recursive formula: $a_1 = 3$ $a = 2(an - 1 + 1)$ Specify a_2 , a_3 and a_4 values for a specific recursive formula. 32. Specify and order verex $f(x) = x^2 - 2x - 8$ by the method of completing the square. 33. The school plans to have a fundraiser before basketball games selling T-shirts with its school logo. The school contacted two companies to find out how much it would cost to make T-shirts. Company A charges a setup fee of \$50 and \$5 per shirt. Company B charges a setup fee of \$25 and \$6 per shirt. Write an equation for Company A that could be used to determine the total costs, A , when ordering x shirts. Write another equation for Company B that could be used to determine the total price, B , when ordering x shirts. Determine the algebraic and find the minimum number of shirts that must be ordered to make it cheaper to use A. 34. Chart $y = f(x)$ and $y = g(x)$ on the set of axis below. $f(x) = 2x^2 - 8x + 3$ $g(x) = -2x + 3$ Specify and find all x values for which $f(x) = g(x)$. 35. The table below shows the number of hours ten students spent studying for the test and their results. Write a linear regression for this data set. Round all values to the nearest hundredth. Stop the correlation coefficient of this line at the nearest hundred. Explain what the correlation coefficient proposes in the context of 36. The inequality system is a graph on the axis set below. The way the inequality system is presented is represented by the graph. Hint at what Region A stands for. Specify what the entire gray region represents to the 37th President of the U.S. When visiting friends in a country that has no sales tax, the two families went to a fast food restaurant for lunch. The Browns bought four cheeseburgers and three medium fries for \$16.53. The Greens bought 5 cheeseburgers and 4 medium fries for \$21.11. Using c for the price of cheeseburgers and f for the price of medium fries, write the equation system that models this situation. The Greens said that since their bill was \$21.11, each cheeseburger must cost \$2.49, and each order of medium fries must cost \$2.87 each. Are they right? Justify your answer. Using your equations, determine algebraic both the price of one cheeseburger and the cost of one order of medium fries. Show step-by-step solutions Try the free Mathway calculator and problem solver below to practice a variety of math topics. Try the default examples or type your own problem and check your answer with step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Send your feedback or inquiries via our Feedback page. The following are some of the multiple questions from the Algebra I Regents exam in Upstate New York in June 2019. June 2019 Algebra I, Part II Each correct answer is valid up to 2 credits. Partial credit can be given. The paper must be displayed or explained. 25. Solve algebraic for x : $-\frac{2}{3}(x + 12) + \frac{2}{3}x = -\frac{5}{4}x + 2$ Answer: There are a few things you can do here. You can multiply each term in an equation by 12 (3 times 4) to get rid of the denominator, or you can combine the terms on the left and deal with fractions later. Method 1 $-\frac{2}{3}(x + 12) + \frac{2}{3}x = -\frac{5}{4}x + 2$ $\frac{12}{12}(-\frac{2}{3}(x + 12)) + \frac{12}{12}(\frac{2}{3}x) = \frac{212}{12}(-\frac{5}{4}x) + \frac{12}{12}(2)$ $-8(x + 12) + 8x = -15x + 24$ $-8x - 96 + 8x = -15x + 24$ $-96 = -15x + 24$ $-110 = -15x$ $8 = x$ Method $\frac{2}{3}(x + 12) + \frac{2}{3}x = -\frac{5}{4}x + 2$ $-\frac{2}{23}x - 8 + \frac{2}{3}x = -\frac{5}{4}x + 2$ $-8 = -\frac{5}{4}x + 2$ $-10 = -\frac{5}{4}x$ $-40 = -5x$ $8 = x$ 26. If $C = G - 3F$, find a trinomial that represents C when $F = 2x^2 + 6x - 5$ and $G = 3x^2 + 4$. Answer: Multiply the F by 3 and take it away from G . $3F = 3(2x^2 + 6x - 5) = 6x^2 + 18x - 15$ $(3x^2 + 4) - (6x^2 + 18x - 15) = -3x^2 - 18x + 19$ My guess is one multiplication point 3F and the other for proper combination. One computer glitch costs a point. Two means no credit. 27. Chart the following function in the direction of the piece on the set of axis below. $f(x) = \begin{cases} |x|, & -5 \leq x \leq 2 \\ -2x + 10, & 2 \leq x \leq 8 \end{cases}$ Answer: Important: You have received a specific range. DO NOT add arrows to endpoints. Also, remember $x = 2$, you need an open circle to mark the end of the chart values and a closed circle to start a linear function. 28. Solve $5x^2 = 180$ algebraic. Answer: $5x^2 = 180$ $x^2 = 36$ $x = \sqrt{36}$ $x = \pm 6$ If Forget -6, you lost a point. If you split wrong and didn't get the perfect square, you could save the point if you left the answer in radical form with a $\pm$ symbol in front of it. However, if you evaluated the radical, you probably lost another point. 29. The blizzard occurred on the East Coast during January 2016. Snow totals from the storm have been recorded for Washington, D.C. and are shown in the table below. Washington, D.C. Time Snow (inches) 1 a.m. 1 3 a.m 5 6 a.m 11 12 noon 33 3 p.m 36 Which interval, 1.m to 12 p.m. or 6 p.m..m to 3.m p.m., has the highest rate of snowfall, in inches per hour? Justify your answer. Answer: Find the rate of change for both intervals: 1 to 12 hours: $\frac{(33 - 1)}{(12 - 1)} = \frac{32}{11} \approx 2.909...$ from 6 a.m. to 15 p.m. (1,500 in military time): $\frac{(36 - 11)}{(15 - 6)} = \frac{25}{9} \approx 2.777...$ From 1 a.m. to 12 p.m., there's a higher rate of snowfall in inches per hour. If you made one math error, you can still get a point for a final answer based on your work. 30. The formula for the volume of the cone is $V = \frac{1}{3}\pi r^2 h$. Solve the equation for h in terms of V , r and π . Answer: This should be a gimme because it is one of the most common examples used in Literal Equations exercises. I'm surprised they didn't use it so you'd have to deal with square root! Isolate h by sharing with other terms. (Dividing by $\frac{1}{3}$ is the same as multiplying by 3.) $V = \frac{1}{3}\pi r^2 h$ $3V = \pi r^2 h$ $3V / (\pi r^2) = (\pi r^2 h) / (\pi r^2)$ $3V / (\pi r^2) = h$ 31. With respect to the recursive formula: $a_1 = 3$ $a = 2(an - 1 + 1)$ Specify a_2 , a_3 and a_4 values for a specific recursive formula. Answer: Just plug the numbers into the formula to get to the next number. A consistent error will not be punished multiple times. $a_1 = 3$ $a_2 = 2(a_1 + 1) = 2(3 + 1) = 2(4) = 8$ $a_3 = 2(a_2 + 1) = 2(8 + 1) = 2(9) = 18$ $a_4 = 2(a_3 + 1) = 2(18 + 1) = 2(19) = 38$ 32. Specify and find verex $f(x) = x^2 - 2x - 8$ by the method of completing the square. Answer: Okay, I'll be the first to admit that this is an uncomfortable question. If I wanted to know vertex, I'd use Symmetry Shafts to find it. If they want you to finish the Square, they should just say so. This is a two-point question, so you will lose a point if you use any other method to find vertex. You will also get one point for listing vertex without any work. As much as I hate to say this, if you're not finishing the square then your job isn't relevant to this problem. See mean term: $-2x$. Half -2 is -1 , so the square you need to complete $(x - 1)^2$. If square to binomial, the constant will be $+ 1$, not $- 8$. I'll do it's extra steps, but you can do it in less. $f(x) = x^2 - 2x - 8$ $f(x) + 1 = x^2 - 2x + 1 - 8$ $f(x) = (x^2 - 2x + 1) - 8 - 1$ $f(x) = (x - 1)^2 - 9$ Verreks is (1, -9). You can check this on the calculator. End of part two How did you do it? comments and corrections welcome. Welcome.

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