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August 2017 algebra regents answers

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As x increases from 0 to $\pi/2$, the equation graph $y = 2 \tan x$ will be 6. Which equation represents a dish with a focus on $(0, -1)$ and directrix $y = 17$? 7. Which diagram represents the angle, α , measurement of $13\pi/20$ radians drawn in the standard position, and its reference angle, θ ? 8. What are the zeros $P(m) = (m^2 - 4)(m^2 + 1)^2$? 9. The value of the new car is depreciating over time. Greg bought a new car in June 2011. The value, V , of his car after t years can be modeled according to the equation $\log_0.8(V/17000) = t$. What is the average decreasing rate of year-on-year change in the value of the car from June 2012 to June 2014 to the nearest ten dollars per year? 10. Iridium-192 is an isotope of iridium and has a half-life of 73.83 days. If the laboratory experiment begins with 100 grams of Iridium-192, the number of grams, A , of Iridium-192 present after t days would be $A = 100(1/2)^{t/73.83}$. Which equation approximates the amount of Iridium-192 present after t days? 11. The distribution of ball bearing diameters produced within a given production process is usually distributed with a diameter of 4 cm and a standard deviation of 0.2 cm. What proportion of ball bearings will have a diameter of less than 3.7 cm? The polynomial equation of grade three, $p(x)$, is used to model the volume of a rectangular box. The $p(x)$ chart has x captures at -2, 10, and 14. Which statements regarding $p(x)$ could be true? View Step by Step Solutions Algebra 2 - August 2017 Regents - Questions and Solutions 13 - 24 13. A student studying public policy has created a model for Detroit's population, where the population has declined by 25% in a decade. He used model $P = 714(0.75)^d$, where P is the population, in thousands, d decades after 2010. Another student, Suzanne, wants to use a model that would predict the population years later. Suzanne's model is best represented by 14 The probability that Gary and Jane have a baby with blue eyes is 0.25, and the probability of having a baby with blonde hair is 0.5. The likelihood of having a child with both blue and blond hair is .125. Due to this information, the events of blue eyes and blond hair are 15 Based on climate data that were collected in Bar Harbor, Maine, the average monthly temperature, in degrees F, can be modeled according to equation $B(x) = 23.914 \sin(0.508x + 2.116) + 55.300$. The same government agency collected average monthly temperature data for Phoenix, Arizona, and found that temperatures could be modeled according to equation $P(x) = 20.238 \sin(0.525x + 2.148) + 86.729$. Which declaration cannot be concluded on the basis of average monthly temperature models x months after the start of data collection? 15 The volume of sound is measured in units called decibels (dB). These units are measured first by assigning intensity I_0 to a very soft sound called a sound threshold. The measured sound is assigned intensity I and the rating of decibels d of this sound is located using $d = 10 \log I/I_0$. The threshold of sound heard for the average person is $1.0 \times 10^{-12} \text{ W/m}^2$ (watts per square meter). Consider the following sound level classifications: 16 For $x \neq 0$, which expressions are equivalent to one divided by the sixth root of x ? Assuming that both boys are accurate in describing the population of their ants, after how many months will both have approximately the same number of ants? Parabola has its focus on $(1, 2)$ and its directrix is $y = -2$. The equation of this dish could be 18 Function $p(t) = 110e^{0.03922t}$ models the population of the city in millions, t years after 2010. To date, consider the following two statements: 19 Ren will make the two sides the least common denominator. Which statement is true? 20 Since $f(9) = -2$, which functions can be used to generate the sequence -8, -7.25, -6.5, -5.75, ...? 21 Function $f(x) = 2 - 0.25x \sin(\pi/2 x)$ represents the muted function of the sound wave. What is the average rate of change of this function in the interval $[-7, 7]$ to the nearest hundredth? 22 Malloy wants to buy a new air conditioner. The price per unit is \$329.99. If she plans to run the unit three months of the year at an annual operating cost of \$108.78, which feature models cost per year over the life of the unit, $C(n)$ in terms of the number of years, n that she owns the air conditioner? 23 Expression can be rewritten as 24 Jasmine decides to put \$100 into a savings account each month. The account pays 3% annual interest, compounded monthly. How much money, S , will Jasmine have after one year? View step by step Solution Algebra 2 - August 2017 Regents - Questions and solutions 25 - 37 25 Since $r(x) = x^3 - 4x^2 + 4x - 6$, find the value $r(2)$. What does your answer say about $x - 2$ as a factor $r(x)$? Explain. 26 The weight of a bag of pears on the local market is an average of 8 pounds with a standard deviation of 0.5 pounds. The weights of all bags of pears on the market closely follow normal distribution. Determine what percentage of bags, at the nearest whole number, weighed less than 8.25 pounds. Through a set of ineths, factor expression $4x^3 + 216x^4$ completely. 28 The graph below shows the height above the ground, h , in inches, of a triathlete's cycling point during a training run in terms of time, t , seconds. Identify the chart period and describe what the period represents in this context. 29 Graph $y = 400(0.85)^{2x} - 6$ on the set of axis below. 30 Solve algebraically for all values x : $\sqrt{(x - 4) + x} = 6$ 31 Write as one term with rational exponent. 32 The data collected on jogging from students with two older siblings are given in the table below. Use this data to determine whether a student with two older siblings is more likely to jog if one sibling jogs or if both siblings jog. Justify your answer. 33 Solve the following system of equations algebraically for all values x , y and z : $x + y + z = 1$, $2x + 4y + 6z = 2$, $-x + 3y - 5z = 11$ 34 Jim looking to buy a holiday home for \$ 172,600 near his favorite southern beach. The formula for calculating the mortgage payment, M , is $M = P \cdot r$ where P is the principal of the loan, r is the monthly interest rate, and N is the number of monthly instalments. Jim's bank offers a monthly interest rate of 0.305% on a 15-year mortgage. Without down payment, determine Jim's mortgage payments, rounded to the nearest dollar. Algebraically determine and cost a down payment, rounded to the nearest dollar that Jim must make to his mortgage payments to be \$1,100. 35 Graph $y = \log_2(x + 3) - 5$ on the set of axis below. Use the appropriate scale to include both captures. Describe the behavior of a given function as x approaching 3 and as x approaching positive infinity. 36 Charlie's Automotive Dealership is considering introducing a new check-in procedure for customers who bring their vehicles for routine maintenance. A dealership initiates a procedure if 50% or more of customers give the new procedure a favorable rating compared to the current procedure. The dealership will develop a simulation based on the minimum requirement that 50% of customers prefer the new procedure. Each dot in the chart below represents the proportion of customers who favored a new check-in procedure, each with a sample size of 40, simulated 100 times. Suppose the data set is approximately normal and the dealership wants to be 95% sure of its results. Specify an interval that contains the likely sample values for which the dealership will begin a new procedure. Round your answer to the nearest hundredth. Forty customers are selected at random to undergo a new check-in procedure, and the proportion of customers who prefer the new procedure is 32.5%. The dealership decides not to make a new clearance procedure on the basis of the results of the study. Use statistical evidence to explain this decision. 37 The radioactive substance has a weight of 140 g at 3 p.m. and 100 g at 8 p.m. Write in form $A = A_0(1/2)^{t/h}$, which models this situation, where h a constant representing the number of hours at half-life, A_0 is the initial mass and A is the mass t hours after 3 p.m. Using this equation, solve for h , for the nearest ten thousandths. Determine when the mass of the radioactive substance will be 40 g. Round your response to the nearest tenth per hour. View step-by-step solutions Try the free Mathway calculator and problem solver below to practice various math topics. Try these examples or enter your own problem and check your answer with a detailed explanation. We welcome your feedback, comments and questions about this site or page. Please send your feedback or questions via our feedback page. Page.

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