Exponential Functions Test With Answers

Exponential Functions Test With Answers Exponential Functions Test with Answers This test covers various aspects of exponential functions ranging from basic definitions to more complex applications It is designed for students taking an Algebra II or Precalculus course I Multiple Choice 2 points each 20 points total 1 Definition of Exponential Function Which of the following is the general form of an exponential function a fx ax b b fx ax bx c c fx abx d fx ax Answer c fx abx 2 Identifying Exponential Functions Which of the following is an exponential function a y 2x 1 b y 3x c y x2 d y x Answer b y 3x 3 GrowthDecay If the base of an exponential function is greater than 1 the function represents a Exponential growth b Exponential decay c Linear growth d Linear decay Answer a Exponential growth 4 Graphing Exponential Functions The graph of the exponential function fx 2x passes through which point a 0 0 2 b 1 1 c 1 2 d 2 1 Answer c 1 2 5 Transformations The graph of y 2x3 is a translation of the graph of y 2x a 3 units to the right b 3 units to the left c 3 units up d 3 units down Answer a 3 units to the right 6 Solving Exponential Equations What is the solution to the equation 4x 16 a x 2 b x 4 c x 8 d x 16 Answer a x 2 7 Logarithmic Form The logarithmic form of the exponential equation 53 125 is a log 125 3 b log 125 5 c log 5 3 d log 3 5 Answer a log 125 3 8 Evaluating Logarithms What is the value of log 8 a 2 b 3 c 4 d 8 Answer b 3 9 Properties of Logarithms Which of the following is NOT a property of logarithms 3 a log b c log b log c b log bc log b log c c log bn n log b d log b log c if and only if b c Answer d log b log c if and only if b c 10 Solving Logarithmic Equations What is the solution to the equation log x 2 2 a x 1 b x 7 c x 9 d x 11 Answer b x 7 II Short Answer 3 points each 15 points total 1 Writing Exponential Equations Write the exponential function that represents the growth of a population that doubles every 5 years starting with an initial population of 1000 2 Graphing Exponential Functions Sketch the graph of the function fx 12x Label at least two points on the graph 3 Solving Exponential Equations Solve the equation 5x1 25 4 Solving Logarithmic Equations Solve the equation log x 3 4 5 Applications The value of a car depreciates exponentially If the initial value was 25000 and it depreciates at a rate of 10 per year what will be the cars value after 5 years III Problem Solving 5 points each 25 points total 1 Compound Interest If 1000 is invested at an annual interest rate of 5 compounded monthly how much money will be in the account after 10 years 2 Population Growth The population of a town is growing exponentially If the population was 10000 in 2000 and 15000 in 2010 what will be the population in 2020 4 3 Radioactive Decay The halflife of a radioactive substance is 10 years If you start with 100 grams of the substance how much will be left after 30 years 4 Solving Exponential Inequalities Solve the inequality 3x1 9 5 Logarithmic Transformation The intensity of sound is measured in decibels dB The formula for the intensity level in decibels is given by L 10logII where I is the intensity of the sound and I is the reference intensity If the intensity of a sound increases by a factor of 10 by how many decibels does the intensity level increase IV Bonus 5 points Prove the following logarithmic property log bc log b log c Answer Key This answer key provides solutions and explanations for each problem It allows students to check their work and understand the concepts tested I Multiple Choice 1 c fx abx This is the general form of an exponential function where a is the initial value and b is the base 2 b y 3x This function has a variable in the exponent which is the defining characteristic of exponential functions 3 a Exponential growth When the base is greater than 1 the function grows rapidly as x increases 4 c 1 2 Substituting x 1 into the function fx 2x gives us f1 2 5 a 3 units to the right The term x 3 inside the exponent shifts the graph 3 units to the right 6 a x 2 Since 4 16 7 a log 125 3 This is the logarithmic form of the exponential equation 8 b 3 Since 2 8 9 d log b log c if and only if b c This statement is not true as log b log c if and only if bc 1 10 b x 7 Solving for x in the equation log x 2 2 gives us x 7 II Short Answer 5 1 ft 1000 2t5 The population doubles every 5 years so the base is 2 and the exponent is t5 2 Sketch The graph will pass through the points 0 1 and 1 12 It will have a horizontal asymptote at y 0 3 x 1 Solving the equation 5x1 25 gives us x 1 2 4 x 19 Solving the equation log x 3 4 gives us x 3 24 5 Value 15000 The formula for exponential decay is Vt V 1 rt III Problem Solving 1 A 164701 Using the compound interest formula A P1 rnnt 2 Population 22500 Using the exponential growth formula Pt P ekt 3 Amount 125 grams Using the formula for radioactive decay Nt N 12tt 4 x 2 Solving the inequality 3x1 9 gives us x

1 2 5 Intensity level increases by 10 dB The intensity level increases by 10 dB for every factor of 10 increase in intensity IV Bonus Proof Let y log bc Then ay bc Multiply both sides by c ay c b Take the logarithm base a of both sides log ay c log b Using the property log b c log b log c log ay log c log b Since log ay y y log c log b Therefore y log b log c Since y log bc we have proven that log bc log b log c This comprehensive test provides a thorough assessment of students understanding of exponential functions their properties and various applications The inclusion of answers and detailed explanations fosters selflearning and reinforces key concepts

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