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Graph	Equation	Graph	Equation
	$y = \frac{1}{x}$		$y = \frac{1}{x-h} + k$
	$y = \frac{1}{x^2}$		$y = \frac{1}{(x-h)^2} + k$
	$y = \frac{1}{x^3}$		$y = \frac{1}{(x-h)^3} + k$

Reciprocal Functions

Inverse Variation
 $y \neq 0$
 $y = \frac{1}{x}$
 $x \neq 0$

Reciprocal Function
 $x = 0$
 $y = \frac{a}{x-h} + k$
 $y = 0$

Name: _____ Score: _____

Quadratic Function

Write the quadratic function for each graph.

1)

2)

3)

4)

5)

6)

7)

8)

9)

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Graphing Radical Functions

Basic Square Root & Its Translations

$y = a\sqrt{x-h} + k$ (h, k)

$y = \sqrt{x}$

$y = 2\sqrt{x}$

$y = -\sqrt{x}$

$y = \sqrt{x-1}$

$y = \sqrt{x} - 1$

$y = \sqrt{x} + 3$

$y = \frac{1}{2}\sqrt{x-2} - 1$

Absolute Value Function Transformations

$f(x) = a|x-h| + k$

- This can be a fraction, 1, or > 1. If a fraction, function Shrinks. If > 1, function Stretches.
- This can be h > 0 or < 0. If h > 0, shift right. If h < 0, shift left.
- This can be + or -. If -, the function is Reflected across x-axis.
- This can be k > 0 or < 0. If k > 0, shift up. If k < 0, shift down.

Graphing transformations of exponential functions worksheet. Transformations of exponential functions worksheet with answers. 3.5 transformations of exponential functions worksheet answer key. Describing transformations of exponential functions worksheet. 3.5 transformations of exponential functions worksheet. Transformations of exponential functions worksheet pdf. Transformations of exponential functions worksheet kuta. 7-2 transformations of exponential functions worksheet answers.

Worksheet on Transformations of Exponential Functions Multiple Choice Identify the choice that best completes the statement or answers the question. 1. Which of the following functions represents 5 units down? a. after a reflection on the x-axis and a vertical translation c. b. d. 2. What is the equation of the asymptote for the function a. y = 3 c. x = 3 b. y = -3 d. y = 4 ? 3. Consider the function. Which of the following graphs represents the base function as a dotted curve and the transformations applied to the base function as a solid curve? y a. c. 5 7 4 6 3 5 2 4 1 3 2 -5 -4 -3 -2 -1 -1 1 2 3 4 5 x 1 -2 -5 -4 -3 -2 -5 -3 d. y -3 -2 -2 -1 -1 -4 b. -5 -4 -3 7 6 5 4 4 3 3 2 2 1 1 1 2 3 4 5 x 2 3 4 5 x 1 2 3 4 5 x y 7 -1 -1 -5 -4 -3 -2 -1 -1 -2 -2 -3 -3 4. Which of the following functions represents translation on the y-axis? a. b. after a vertical compression by the factor and a reflect. c. d. 5. The graph shown represents a transformation of the function ation?. What is the equation for the transform- y 3 2 1 -8 -7 -6 -5 -4 -3 -2 -1 -1 1 2 x -2 -3 -4 -5 -6 -7 a. c. b. d. Short Answer 6. Use transformations to sketch the function 7. Compare and contrast the functions. State the domain and range, and. 8. The function transformations, is the result of transformations of. Describe the sequence of transformations of Exponential Functions Answer Section MULTIPLE CHOICE 1. ANS: OBJ: 2. ANS: OBJ: 3. ANS: OBJ: 4. ANS: OBJ: 5. ANS: OBJ: C PTS: 1 REF: Knowledge and Understanding 4.6 - Transformations of Exponential Functions A PTS: 1 REF: Knowledge and Understanding 4.6 - Transformations of Exponential Functions D PTS: 1 REF: Knowledge and Understanding 4.6 - Transformations of Exponential Functions A PTS: 1 REF: Knowledge and Understanding 4.6 - Transformations of Exponential Functions D PTS: 1 REF: Knowledge and Understanding 4.6 - Transformations of Exponential Functions SHORT ANSWER 6. ANS: y 6 4 2 -12 -10 -8 -6 -4 -2 -2 2 4 6 8 x -4 -6 -8 -10 -12 -14 Domain = {x R} Range = {y R | y < -1} PTS: 1 REF: Knowledge and Understanding 4.6 - Transformations of Exponential Functions 7. ANS: Both functions are the same. Eight is a power of 2, so, to make it easier to compare for 8 in the first equation. with, 1 substituted PTS: 1 REF: Communication OBJ: 4.6 - Transformations of Exponential Functions 8. ANS: There is a vertical stretch by a factor of 2 and a reflection in the x-axis. There is a horizontal compression by a factor of. There is a translation 3 units to the right and 9 units up. PTS: 1 REF: Communication OBJ: 4.6 - Transformations of Exponential Functions In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Worksheet on Transformations of Exponential Functions Multiple Choice Identify the choice that best completes the statement or answers the question. 1. Which of the following functions represents 5 units down? a. after a reflection on the x-axis and a vertical translation c. b. d. 2. What is the equation of the asymptote for the function a. y = 3 c. x = 3 b. y = -3 d. y = 4 ? 3. Consider the function. Which of the following graphs represents the base function as a dotted curve and the transformations applied to the base function as a solid curve? y a. c. 5 7 4 6 3 5 2 4 1 3 2 -5 -4 -3 -2 -1 -1 1 2 3 4 5 x 1 -2 -5 -4 -3 -2 -5 -3 d. y -3 -2 -2 -1 -1 -4 b. -5 -4 -3 7 6 5 4 4 3 3 2 2 1 1 1 2 3 4 5 x 2 3 4 5 x 1 2 3 4 5 x y 7 -1 -1 -5 -4 -3 -2 -1 -1 -2 -2 -3 -3 4. Which of the following functions represents translation on the y-axis? a. b. after a vertical compression by the factor and a reflect. c. d. 5. The graph shown represents a transformation of the function ation?. What is the equation for the transform- y 3 2 1 -8 -7 -6 -5 -4 -3 -2 -1 -1 1 2 x -2 -3 -4 -5 -6 -7 a. c. b. d. Short Answer 6. 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Eight is a power of 2, so, to make it easier to compare for 8 in the first equation. with, 1 substituted PTS: 1 REF: Communication OBJ: 4.6 - Transformations of Exponential Functions 8. ANS: There is a vertical stretch by a factor of 2 and a reflection in the x-axis. There is a horizontal compression by a factor of. There is a translation 3 units to the right and 9 units up. PTS: 1 REF: Communication OBJ: 4.6 - Transformations of Exponential Functions In this worksheet, we will practice sketching and identifying the graphical transformations of exponential functions. Q1: Which of the following graphs represents the function y = -4(2)^x? A B C D Q2: Which of the graphs is that of f(x) = 2 * 3^x? Q3: Which of the following graphs represents the function y = 14? A B C D E Q4: Which of the following could be the equation of the curve? Ay = -4(1+3) B y = 4(1+3) Cy = 4(1-3) Dy = 4(1+3) Ey = 4(1-3) Q5: Determine the point at which the graph of the function f(x) = 6 intersects the y-axis. A(6,0) B(1,0) C(0,1) D(0,6) Q6: What is the domain of this exponential function? A(-1, infinity) B(1, infinity) C(-infinity, 0) D(0, infinity) E all real numbers Q7: Find the domain and the range of the function f(x) = 7 + 5 in R. Adomain = R, range = {5, infinity) Bdomain = {5, infinity), range = R Cdomain = R, range = {7, infinity) Ddomain = R, range = R Edomain = R, range = R Q8: Find the domain and the range of the function f(x) = 18. Adomain = R, range = R Bdomain = [0, 1), range = R Cdomain = R, range = R Ddomain = [0, 1), range = R Edomain = R, range = (-9, infinity) Q9: To get the graph of y = 5 from the graph of y = 2, we must. A scale by a factor of loglog(5)(2) in the horizontal direction. B scale by a factor of 52 in the horizontal direction. C scale by a factor of loglog(2)(5) in the vertical direction. D scale by a factor of loglog(5)(2) in the vertical direction. Q10: The following graph is of a function f(x) = A + BC for some numbers A, B, and C. Determine these constants. AA = 7, B = -6, C = -19 BA = -6, B = -7, C = 19 CA = 7, B = 6, C = 19 DA = -6, B = 7, C = 19 EA = 7, B = -6, C = 19 This lesson includes 47 additional questions and 78 additional question variations for subscribers.

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