

Algebra Quiz PDF

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What is the result of 2x + 3x?
5x^25x6x5
Solve for x: x + 5 = 12.
○ 5○ 6○ 7○ 8
Explain why a variable is used in algebraic expressions.

Describe the process of solving a linear equation with one variable.



How do you determine if a relation is a function?	
	/
Describe how to simplify a complex rational expression.	
	//
Explain the process of rationalizing the denominator of a radical expression.	
Explain the process of rationalizing the denominator of a radioar expression.	
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Which of the following are solutions to the inequality $x - 2 > 3$?	
<u> </u>	
□ 5	

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□ 6□ 7
What is the value of log_{10} 1000?
○ 1○ 2○ 3○ 10
What is √64?
○ 6○ 7○ 8○ 9
What is the degree of the polynomial 3x^4 + 2x^2 - x + 5?
○ 1○ 2○ 3○ 4
Simplify (x^2 - 4)/(x - 2).
○ x + 2○ x - 2○ x^2 - 4○ 1
Which of the following can be factored from x^2 - 16?
 □ x + 4 □ x - 4 □ x^2 + 16 □ x^2 - 4

Which of the following are true for log_b (mn)?



 log_b m + log_b n log_b m ⋅ log_b n log_b m - log_b n log_b (m+n)
Which of the following are true about the function f(x) = 3x + 4? It is a linear function. The slope is 3. The y-intercept is 4. It is a quadratic function.
Which of the following are equivalent to (1/x) + (1/y)? (x+y)/(xy) (y+x)/(xy) (1/xy)
 □ (x-y)/(xy) Explain the process of factoring a quadratic polynomial.
Which of the following is a variable?
○ 7○ y○ 12○ 3.14
What is the range of the function $f(x) = x^2$ for x in the set of all real numbers?
All real numbersNon-negative real numbersPositive real numbers

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Negative real numbers	
Which of the following are equivalent to $x^2 \cdot x^3$?	
x^5 x^6 x^{2+3} x^8	

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