

## **College Algebra Practice Quiz PDF PDF**

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What is the domain of the function $f(x) = \sqrt{x-3}$ ?
○ x >= 3
$\bigcirc x > 3$
○ x <= 3
○ All real numbers
What is the solution to the inequality $2x - 5 > 3$ ?
$\bigcirc x > 4$
○ x < 4
○ x > 1
○ x < 1
What is the inverse of the function $f(x) = 3x + 2$ ?
$f^{-1}(x) = (x - 2)/3$
$\bigcap f^{-1}(x) = 3x - 2$
$\int f^{-1}(x) = x/3 + 2$
$ f^{-1}(x) = 3(x - 2) $
What is the determinant of the matrix \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}?
○ <b>-2</b>
○ 2
○ -10
○ 10
What is the sum of the first 5 terms of the arithmetic sequence where the first term is 2 and the common difference is 3?
○ 25

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○ 30								
○ 35								
<b>0</b> 40								
Which of the following are properties of logarithms?								
Which of the following are methods to solve a system of linear equations?								
☐ Graphical method								
☐ Substitution method								
☐ Elimination method								
☐ Integration method								
Which of the following statements about complex numbers are true?								
☐ The sum of a complex number and its conjugate is always real.								
☐ The product of a complex number and its conjugate is always real.								
Complex numbers can be represented in polar form.								
☐ The division of two complex numbers always results in a real number.								
Which of the following are characteristics of exponential functions?								
☐ They have a constant rate of change.								
☐ They are defined for all real numbers.								
☐ They have a horizontal asymptote.								
☐ They are symmetric about the y-axis.								
Which of the following are true about polynomial functions?								
☐ They are continuous for all real numbers.								
☐ They have a finite number of turning points.								
☐ They can have an infinite number of roots.								
☐ Their degree determines the maximum number of roots.								

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Which of the following are true about rational expressions?



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They can be simplified by cancelizing common factors.  They are undefined where the denominator is zero.  They always have a horizontal asymptote.  They can be added by finding a common denominator.
explain how you would solve the quadratic equation $x^2 - 5x + 6 = 0$ using the factoring method. Include all steps in your explanation.
Describe the process of converting a complex number from rectangular form to polar form. Provide n example with your explanation.
/2
Discuss the significance of the discriminant in a quadratic equation. How does it determine the ature of the roots?

Analyze the function  $f(x) = 2x^3 - 3x^2 + x - 5$ . Determine its end behavior and discuss how the leading term affects the graph.



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	/1
xplain the difference between an arithmetic sequence and a geometric sequence. Provide amples of each and discuss how to find the sum of the first n terms.	
	/1
ovide a detailed explanation of how to solve the system of equations using the elimination ethod: $2x + 3y = 6$ ; $4x - y = 5$ .	
	/1
scuss the role of asymptotes in the graph of a rational function. How do they affect the shape a characteristic shape and the graph?	and

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	cess and an ex			e form f(x) = ax^2		
						//
Analyze the asymptotes.		e function f(x) =	\log(x - 1). Discu	ss its domain, rar	nge, and any	
						,