

Intermediate Algebra Diagnostic (IADI)

Students who score 106 or above of the BAAD will take the Intermediate Algebra Diagnostic.

| Category | Competency | Competency Description | Items |
|------------------------------------|---|---|-------|
| Rational Expressions and Equations | Real Value of Algebraic Expressions | Identify the real value of the variable for which a rational algebraic expression having a denominator of the form $ax + b$ is undefined. | 1 |
| Radical Expressions and Equations | Solving Radical Equations | Solve radical equations. | 1 |
| Functions | Domain and Range | Determine the domain and range of a function. | 1 |
| Quadratic Equations | Finding the Vertex | Find the vertex of a quadratic equation using the formula method | 1 |
| Parabolas | Parabola Concavity | Determine whether the parabola opens upward or downward. | 1 |
| Radical Expressions and Equations | Rationalizing the Denominator | Rationalize the denominator of a radical expression with 2 terms in the denominator. | 1 |
| Logarithms | Writing Logarithmic Expressions | Write a logarithmic expression in exponential form. | 1 |
| Monomials | Operations with Square Roots of Monomials | Add, subtract, and multiply square roots of monomials | 2 |
| Rational Expressions and Equations | Solving Rational Algebraic Equations | Solve rational algebraic equations. | 2 |
| Rational Expressions and Equations | Converting between Roots and Powers | Convert between combinations of n th root and m th power and $a^{m/n}$ forms. | 2 |
| Quadratic Equations | Solving Quadratic Equations | Solve quadratic equations in one variable. | 2 |

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| Functions | Composition of Functions | Simplify the composition two given functions. | 2 |
| Logarithms | Logarithmic Expressions | Simplify a logarithmic expression. | 2 |
| Radical Expressions and Equations | Writing Radical Expressions | Write a radical expression using exponents. | 2 |
| Radical Expressions and Equations | Simplifying Radicals and Radical Expressions | Simplify a rational algebraic expression. | 3 |
| Rational Expressions and Equations | Operations with Rational Algebraic Expressions | Perform operations of rational algebraic expressions. | 3 |
| Rational Expressions and Equations | Least Common Denominator | Find the Least Common Denominator (LCD) of two or more rational algebraic expressions. | 3 |
| Absolute Value | Equations and Inequalities | Equations and inequalities with absolute values | 3 |
| Rational Expressions and Equations | Simplifying Rational Algebraic Expressions | Simplify radicals and radical expressions. | 2 |
| | | Test Length | 35 |

Notes

AL students who score below 45 on the IADI will be placed into MAT 055. AL students who score 45 or above but less than 60 will be placed into either MAT 055 or MAT 121 with the MAT 093 lab. AL students who score 60 or above will be placed into MAT 121.

QL and CTE students who score 106 or above on the BAAD should not take the IADI because if they scored 106 on the BAAD, they are already placed in the CTE math course or the QL math course they need.