

# Rising Pre-Calculus

## Select Algebra II

Minimum Smart Score of 65 Required

B.1 Solve linear equations

B.4 Solve absolute value equations

B.6 Solve multivariable equations

C.4 Solve linear inequalities

C.6 Solve absolute value inequalities

C.11 Solve quadratic inequalities

D.4 Find values using function graphs

D.7 Graph a linear function

D.8 Write the equation of a linear function

E.2 Solve a system of equations by graphing

E.6 Solve a system of equations using substitution

E.8 Solve a system of equations using elimination

E.11 Solve a system of equations using any method: word problems

F.2 Solve systems of linear inequalities by graphing

G.5 Add and subtract scalar multiples of matrices

G.6 Multiply two matrices

G.9 Solve matrix equations

I.6 Add, subtract, multiply, and divide complex numbers

J.5 Factor by grouping

J.7 Factor polynomials

K.5 Graph a quadratic function

K.6 Solve a quadratic equation using square roots

K.8 Solve a quadratic equation by factoring

K.9 Complete the square

K.11 Solve a quadratic equation using the quadratic formula

K.14 Write a quadratic function from its zeros

L.4 Divide polynomials using long division

L.5 Divide polynomials using synthetic division

L.14 Match polynomials and graphs

M.4 Simplify radical expressions with variables I

M.9 Add and subtract radical expressions

M.13 Solve radical equations

O.1 Rational functions: asymptotes and excluded values

O.4 Simplify rational expressions

O.5 Multiply and divide rational expressions

O.6 Add and subtract rational expressions

O.7 Solve rational equations

P.5 Composition of linear functions: find an equation

P.11 Find inverse functions and relations

Q.1 Function transformation rules

Q.5 Transformations of functions

S.3 Convert between exponential and logarithmic form: all bases

S.12 Properties of logarithms: mixed review

T.4 Solve exponential equations using factoring

T.5 Solve exponential equations using common logarithms

T.7 Solve logarithmic equations I

V.4 Write equations of circles in standard form using properties

V.7 Graph circles

Y.1 Convert between radians and degrees

Y.3 Graphs of angles

Z.1 Pythagorean Theorem and its converse

Z.2 Special right triangles

Z.3 Trigonometric ratios: sin, cos, and tan

Z.16 Trigonometric ratios: find a side length

Z.17 Trigonometric ratios: find an angle measure

Z.18 Solve a right triangle

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