



South Seattle Pre-Calculus/Calculus Study Topics

This is a two part test. Part A consists of (13 questions) and Part B (7 questions). It is untimed. The examinee may use a scientific calculator that will be supplied. ONE exam retake is allowed with an additional fee.

Placement:

MATH&141 (Precalculus I) MATH&148	Minimum 7 correct answers on Part A
MATH&142 (Precalculus II)	Minimum 7 correct answers on Part A and 4 correct answers on Part B (at least 11 correct answers total on A and B)
MATH&151 (Calculus)	Minimum 8 correct answers on Part A and 4 correct answers on Part B (at least 15 correct answers total on A and B)

Study these topics in preparation for the Precalculus Placement Test A:

- Solve systems of linear equations (two and three variable)
- Solve systems of nonlinear equations in two variables
- Solve absolute value equations (linear)
- Calculate the difference quotient
- Find roots/zeroes of polynomial functions
- Multiply and divide polynomial functions
- Compose functions
- Graph rational functions (incl. asymptotes)
- Symmetry of functions
- Find/graph inverse functions
- Solve and graph exponential and logarithmic functions
- Graph conic equations (incl. vertices, foci and asymptotes)
- Partial fraction decomposition

Study these additional topics in preparation for Precalculus Placement Test B*:

- Trig. functions and right triangles
- Basic trig. graphs
- Inverse trig. functions
- Basic trig. identities
- Law of sines and cosines
- Polar coordinates and rectangular conversion

*Note: Part B is for students who intend to enroll in MATH&142 or MATH&151 as their first math class on campus. Students who intend to enroll in MATH&141 or MATH&148 only need to study for Part A.