

College Algebra Test 2 Playlist

MAC1105 Test 2 Extra Practice A (video and sound are weird near end and start)

[0:00](#) 4.2 Maximum Revenue Build demand equation first.

[10:47](#) 4.2.23 Area maximum parking lot along the street

MAC1105 Test 2 Extra Practice B

[0:00](#) 3.2 Even, Odd or Neither from the equation (rational, even)

[6:43](#) 4.1 Intercepts of a quadratic function (quadratic formula)

MAC1105 Test 2 Extra Practice C

[0:00](#) 4.2 Minimize area cut a piece of wire

MAC1105 Test 2 Extra Practice D

[0:00](#) 3.2A or 4.6 Domain and range from a graph

[4:27](#) 3.5A Evaluate combined functions from a graph

[8:20](#) 4.6 Horizontal asymptotes (case 2: $m=n$)

MAC1105 Test 2 Extra Practice E

[0:00](#) 3.3A Graph the basic function $f(x)=x^2$; identify properties

[6:50](#) 3.3A Graph the basic function $f(x)=-4$; identify properties

MAC1105 Test 2 Extra Practice F

[0:00](#) 4.6 Graph rational function (one vertical asymptote, slant asymptote)

MAC1105 Test 2 Extra Practice G

[0:00](#) 3.5A Add, subtract, multiply, divide, domain $f(x)=\sqrt{x}$, $g(x)=x-8$

[7:50](#) 3.3A Graph the basic function $f(x)=1/x$; identify properties

MAC1105 Test 2 Extra Practice H

[0:00](#) 3.3A Graph the basic function $f(x)=\sqrt{x}$; identify properties

[5:54](#) 3.3B Evaluate a piecewise defined function using the rule

[8:13](#) 3.3B Determine the rule for piecewise defined function given the graph (linear and constant)

[14:44](#) 3.3.42 Determine the rule for piecewise defined function given the graph (linear and quadratic)

MAC1105 Test 2 Extra Practice I

[0:00](#) 3.4 Transformation of functions; base: square; reflection and shifts

[8:21](#) 3.4 Transformation of functions; base: absolute value; shifts

[11:30](#) 3.4 Transformation of functions; base: cube; reflection and shift

MAC1105 Test 2 Extra Practice J

[0:00](#) 4.6 Find the vertical asymptote from the equation

[6:06](#) 4.6 Discontinuities, intercepts, asymptotes, sketch the graph

MAC1105 Test 2 Extra Practice K

[0:00](#) 3.5A Add, subtract, multiply, divide, domain $f(x)=\sqrt{x}$, $g(x)=x+4$

MAC1105 Test 2 Extra Practice L

[0:00](#) 3.4 Transformation of functions; base: square root; shifts

[3:04](#) 3.4 Transformation of functions; base: reciprocal; shifts
[6:51](#) 3.4 Write the rule for the graph of a square function
[8:57](#) 3.5A Evaluate the combined function (subtraction)

MAC1105 Test 2 Extra Practice M

[0:00](#) 3.5A Evaluate the combined function (division)
[3:39](#) 4.1 Use completing the square to rewrite the quadratic function (vertex, orientation, axis of symmetry)

MAC1105 Test 2 Extra Practice N

[0:00](#) 3.5A Build Revenue, evaluate revenue and demand
[9:51](#) 4.2 Maximize position function (baseball)

MAC1105 Test 2 Extra Practice O

[0:00](#) 4.2 Maximize position function (rocket)
[9:52](#) 4.2 Build Revenue, Maximize revenue

MAC1105 Test 2 Extra Practice P

[0:00](#) 4.1 Orientation of a quadratic function
[2:26](#) 3.3B Determine the rule for piecewise defined function given the graph (linear and constant)
[10:53](#) 3.5A Evaluate the combined function (addition)
[15:27](#) 3.5B Build the composition of functions

MAC1105 Test 2 Extra Practice Q

[0:00](#) 3.5B Evaluate composed functions from a graph
[10:10](#) 3.5B Find the domain of composed functions

MAC1105 Test 2 Extra Practice R

[0:00](#) 4.1 Orientation of a quadratic function
[1:16](#) 4.1 Orientation of a quadratic function
[3:23](#) 4.1 Quadratic function in vertex form (vertex, orientation, axis of symmetry, intercepts, graph)

MAC1105 Test 2 Extra Practice S

[0:00](#) 4.6-25 Graph the rational function

MAC1105 Test 2 Extra Practice T

[0:00](#) 4.6.9 Vertical asymptotes and sketch the graph near the asymptote
[7:28](#) OA Spring 2021 Diagonal of TV set

MAC1105 Test 2 Extra Practice U

[0:00](#) OA Spring 2021 Read linear graph
[4:43](#) 4.2 Maximize Area rectangular fence along a river
[12:22](#) 4.1 Quadratic function in vertex form (vertex, orientation, axis of symmetry)

MAC1105 Test 2 Extra Practice V

[0:00](#) 4.6.BE-90 Graph rational function

MAC1105 Test 2 Extra Practice W

[0:00](#) 4.6 Horizontal asymptotes of the rational function (case 3: $n=m+1$)

[7:53](#) 3.5B Evaluate composed functions with a graph
[16:52](#) 4.1.BE-51 Quadratic function in vertex form (graph, domain, range)
[23:01](#) 4.6 Horizontal asymptotes of the rational function (case 2: $m=n$)
[27:21](#) 4.1 Quadratic function in general form (find the vertex using the formula and completing the square)
[35:19](#) 4.6 Horizontal asymptotes of the rational function (case 2: $m=n$)
[38:19](#) 4.6 Sketch the graph of the rational function

MAC1105 Test 2 Extra Practice X

[0:00](#) 4.6 Vertical asymptotes of the rational function
[4:52](#) 3.4 Write the rule for the graph of a square function
[8:40](#) 4.1 Quadratic function in general form (vertex, orientation, axis of symmetry)
[16:59](#) 4.6 Rational function (domain, intercepts)
[22:48](#) 4.1 Intercepts of a quadratic function (quadratic formula)
[29:28](#) 3.6 Find the inverse of the function $f(x)=x^3+4$
[34:45](#) 3.6 Find the inverse of the function $f(x)=1/2x+2$
[38:55](#) 3.6 One-to-one from a graph (piecewise)
[42:13](#) 3.6 One-to-one from a graph (log)
[45:43](#) 3.5 Evaluate composed function

MAC1105 Test 2 Extra Practice Y

[0:00](#) OA Spring 2021 Question 3 Diagonal of TV set
[9:53](#) 4.1 Quadratic function in general form (vertex, orientation, axis of symmetry)
[15:30](#) 4.6 Graph with transformations; base: reciprocal; shifts
[22:36](#) 4.2 Maximize area, parking lot along a street
[30:04](#) 4.6 Horizontal asymptotes of a rational function (case 3: $n=m+1$)
[33:56](#) 4.6 Vertical asymptotes of a rational function from the equation

MAC1105 Test 2 Extra Practice Z

[0:00](#) 4.6 Horizontal asymptotes from the graph
[3:30](#) 4.2 Maximum area, rectangular along the river, one partition
[13:22](#) 4.2 Minimize area, cut wire
[25:51](#) 3.5.57 Evaluate composed functions from the graph
[36:14](#) 3.4 Transformation of functions; base: absolute value; reflection and shifts
[52:21](#) 4.6 Transformation of functions; base: reciprocal squared; shifts; find intercepts

College Algebra MAC1105 Q&A Test 2 A

[0:00](#) 4.2 Maximize area; fencing along river
[10:19](#) 4.2 Maximize profit Amy pottery
[18:25](#) 3.6.31 Domain, range, y-intercept, evaluate the inverse given the graph of f
[28:52](#) 3.6 Find the inverse of $g(x)=(3x-8)/(7-x)$ domain and range
[37:57](#) 3.5B Build composed function (linear and square root)
[39:50](#) 4.6 Rational function (domain, intercepts)
[43:19](#) 4.6 Vertical asymptotes from the equation
[49:10](#) 3.6 One to one from a graph (piecewise)
[53:18](#) 3.6 Inverse of a the function $f(x)=1/6x-2$
[57:53](#) 4.6 Domain, range, intercepts, asymptotes of a rational function from the graph
[1:07:31](#) 3.5B Build a composed function (linear and rational)

College Algebra MAC1105 Q&A Test 2 B

- [0:00](#) 3.3.1 Graph the basic function $f(x)=x^2$; identify properties
- [6:40](#) 3.4.46 Transformation of functions; base: cube; reflection and shift
- [10:02](#) 3.3.40 Determine the rule for piecewise defined function given the graph (linear and constant)
- [17:12](#) 3.5.57 Evaluate composed functions from the graph
- [23:35](#) 4.6.13 Horizontal asymptotes of a rational function (case 1: $n < m$)
- [32:09](#) 4.6.17 Horizontal asymptotes of a rational function (case 2: $n = m$)
- [40:44](#) 3.5.13 Evaluate combined functions from a graph
- [46:41](#) 3.5.36 Build composed functions (rational and root)
- [50:25](#) 3.5.46 Evaluate composed functions
- [55:09](#) 4.2.3 Maximum height using the position function (toy rocket)

College Algebra 10/14/2021 9:30am Test 2 Q&A

- [0:00](#) 3.5.AS-3 Build and Evaluate an Area function
- [7:44](#) 3.4.39 Use transformations to shift points and draw a sketch of the graph
- [14:50](#) 3.6-7 Is the graph one-to-one?
- [19:09](#) 4.2 Find the maximum height of the position function (baseball)
- [25:12](#) 3.5 Form combined functions and find the domain (two polynomial functions)
- [32:40](#) 3.5 Form combined functions and find the domain (root and polynomial function)
- [40:55](#) 4.1 Find the vertex using completing the square, orientation and axis of symmetry for a quadratic function in general form
- [46:03](#) 3.5.AS Build and Evaluate an Area function

College Algebra 10/14/2021 3pm Test 2 Q&A

- [0:00](#) 3.6-7 Is the graph one-to-one?
- [7:03](#) 3.3.36 Write the rule for the piecewise defined function. (linear and constant)
- [14:17](#) 3.5.13 Evaluate combined functions with a graph
- [18:49](#) 3.5.33 Find a composite function (linear and rational)
- [22:01](#) 3.5.57 Evaluate the composite function with a graph
- [31:02](#) 4.2 Find the maximum height of the position function
- [40:43](#) 4.2 Find the maximum height of the position function (toy rocket)
- [48:44](#) 4.2 Find the maximum revenue using the given demand equation (tv sets)

College Algebra 10/26/2021 9:30am Test 2 Q&A

- [0:00](#) 4.1.SbS-33 Use the graph of a parabola to answer questions about the quadratic functions
- [7:37](#) 3.4.37 The graph has one horizontal shift and one vertical shift. Write the equation of the absolute value graph
- [12:17](#) 4.1.BE-88 Does the quadratic equation have a minimum or maximum value? What is the min or max value?
- [19:12](#) 4.6 5.4-9 Find the domain and range of the rational functions
- [27:41](#) 4.6 5.4-13 Find any vertical asymptotes of the rational function from the graph
- [30:35](#) 4.1.BE-74 Find the vertex, orientation and axis of symmetry of the quadratic function in general form
- [38:19](#) 3.5.4 Evaluate the combined division function in two ways

College Algebra 10/26/2021 3pm Test 2 Q&A

- [0:00](#) 4.6.BE-90 Graph a Rational Function
- [13:58](#) 4.6 5.4-19 Find the horizontal asymptote from the graph
- [17:50](#) 4.6.5 Find the domain and intercepts of the rational functions

[23:39](#) 4.6 5.4.31 Find the domain, range, asymptotes and intercepts from the graph of a rational functions

[33:52](#) 4.2.25 Find the maximum area of the rectangular pin bordering along a river with two partitions

College Algebra 10/28/2021 9:30am Test 2 Q&A

[0:00](#) 3.4.75 Transformation of functions; base: absolute value; reflection, vertical compression and shift

[8:00](#) 4.6.SbS-45 Graph the Rational Function with no vertical asymptotes

[20:43](#) 4.6.10 Find vertical asymptotes and sketch the graph near the asymptote

[33:14](#) 4.6.17 Find the horizontal asymptote if any (case where the degree of the numerator equals the degree of the denominator)

[36:35](#) 3.3.40 Find the rule given the graph of the piecewise defined function (linear and constant)

College Algebra 10/28/2021 3pm Test 2 Q&A

[0:00](#) 3.4.75 Transformation of functions; base: absolute value; vertical compression and shift

[6:37](#) 3.5.33 Composition of Functions (linear and rational)

[9:02](#) 4.1.BE-75 Find the intercepts of the quadratic function (completing the square and quadratic formula)

[22:21](#) 3.3.42 Find the rule given the graph of the piecewise defined function (linear and square)

[28:29](#) 4.6.BE-90 Graph the Rational Function with two vertical asymptotes

College Algebra 11/01/2021 10am and 2pm Test 2 Q&A

[0:00](#) 3.5B Composition of functions (linear and rational)

[3:12](#) 4.1 Find the intercepts of the quadratic function (quadratic formula)

[14:26](#) 4.6 Horizontal asymptotes of a rational function (case 2: $n=m$)

[19:31](#) 4.2 Maximum value of the position functions

[29:24](#) 4.6 Graph the rational function (2 vertical asymptotes, HA case 2)