MAT 1053 - MODULE 1.2 PRE-CLASS WORK

MODULE 1.2 - DOMAIN, RANGE, AND TOOLKIT FUNCTIONS

LEARNING OBJECTIVES

In this section, you will:

- Find the domain of a function defined by an equation.
- Graph piecewise-defined functions.

FINDING THE DOMAIN OF A FUNCTION DEFINED BY AN EQUATION

How To... Given a function written in equation form that includes a fraction, find the domain.

How To... Given a function written in equation form that including an even root, find the domain.

USING NOTATIONS TO SPECIFY DOMAIN AND RANGE

• State the definition of interval notation and provide an example.

How To... Given a line graph, describe the set of values using interval notation.

FINDING DOMAIN AND RANGE FROM GRAPHS.

How To... Given the formula for a function, determine the domain and rang

MODULE 1.2 - CLASS EXAMPLES

Find the domain of each function using interval notation.

1.
$$g(x) = \frac{x^2 - 4}{x - 6}$$

2. $h(x) = \sqrt{4 - 3x}$

3.
$$f(x) = 2x^3 - 7$$

Write the domain and range of each function using interval notation.

