TOPIC 9	Symbolic Math Toolbox
SUB-TOPICS	<ul> <li>symbolic data type</li> <li>defining symbolic numbers, variables and functions</li> <li>manipulating algebraic expressions</li> <li>plotting with ezplot and ezsurf</li> <li>polynomial division example (quorem)</li> <li>partial fraction decomposition example (partfrac)</li> <li>differentiation and integration of symbolic functions</li> <li>integration problem (to be solved in class/at home)</li> <li>list of useful symbolic functions</li> </ul>
OBJECTIVES	by the end of this unit, students should be able to:  - expand and simplify algebraic expressions - solve algebraic equations - calculate the formula for the derivative or antiderivative of a function - determine the exact value of a definite integral
KEY WORDS AND EXPRESSIONS	on MOLE
CORE STUDY MATERIALS	<ul><li>Textbook selection</li><li>MATLAB Topic 9 Notes</li></ul>
TEXTBOOK STUDY	Essential Reading  Chapter 1 Introduction  - Section 1.2.3 (Symbolics and the MUPAD notebook APP)  Chapter 17 Symbolics Toolbox  - Section 17.1 (Algebra)  - Section 17.2 (Calculus)
ADDITIONAL RESOURCES	See additional links in the Topic 9 Notes.