ALBERTA DISTANCE LEARNING CENTRE

Mathematics 30-1 MAT3791 Workbook 6.2

Student's Questions and Comments	FOR STUDENT USE O	ONLY FOR	Assigned to Marked by Date received			
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		Understanding 6.2				
Teacher's Comments:						
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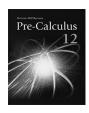
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Pre-Calculus 12
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Explore Your Understanding Assignment 6.2

This assignment includes 6 marks. You are expected to complete **5 marks** worth of work. If you complete more than this, all completed questions will be used to assign a grade. For example, if you complete all 6 marks worth of work, your assignment total will be 6 instead of 5. You can also complete a question and label it "DO NOT MARK" if you are not confident in your work. Your teacher will then give feedback on your response, which will help clarify any misconceptions, but will not count it towards your required mark total. Please contact your teacher if you have any questions.

- 1. Explain how the binomial theorem is related to Pascal's triangle.
- The numbers 1, 19, 171, 969, and 3 876 are the first values in a row of Pascal's triangle. Determine the first five values of the row above it.
- 2 3. Determine the fifth term of the expansion of $(3-2x)^6$ if the expansion is written in ascending order by degree of x.
- 2 4. Does the expansion of $\left(x^2 \frac{1}{x}\right)^7$ contain an x^3 term? Justify.

When this workbook is complete, submit it using a method described at the beginning of this *Workbook*. Next, complete *Test Your Understanding Quiz 6.2* online in Moodle. When complete, return to the Module and begin *Lesson 7.1*.



adlc.ca 1-866-774-5333 info@adlc.ca Alberta Distance Learning Centre Box 4000 4601 - 63 Avenue Barrhead, Alberta T7N 1P4

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