

Pre-Calculus 11 Start Up Assignment

Student Learning Plan (SLP)

In the following table, you will see two columns beside courses. “C” stands for completed and “IP” stands for in-progress. Please put a checkmark in the appropriate box. For courses you have not taken yet, please leave blank.

What grade are you currently in?						
If you are on the adult graduation program, or have graduated, check this box and go on to page 2. Contact your VLN counsellor if you are not sure which graduation program you are on.						
Required Courses (52 credits for graduation)						
		C	IP		C	IP
English 10 Composition (2)	(2)			Science 11 or 12 (4)	(4)	
English 10 Literary Studies (or other English 10 course)	(2)			Mathematics 10 (Workplace or Foundations/Pre-Calculus)	(4)	
Literary Studies 11 or Composition 11	(4)			Mathematics 11 or 12 (Workplace, Foundations or Pre-Calculus)	(4)	
English Studies 12 or English 12 First Peoples	(4)			Physical and Health Education 10	(4)	
Social Studies 10	(4)			Arts Education and/or Applied Design, Skills and Technologies	(4)	
Social Studies 11 or 12	(4)			Career Life Education 10	(4)	
Science 10	(4)			Career Life Connections & Capstone 12	(4)	
Elective Courses (28 credits for graduation)				Required Assessments		C
	Course Name	C	IP	Grade 10 Numeracy		
Grade 10, 11, or 12				Grade 10 Literacy		
				Grade 12 Literacy		
				Please ensure you complete at least one Indigenous or First Peoples course (Grade 10, 11, or 12) in order to graduate.		
Grade 12						
				Course Name	C	IP
Date and Signature						
Student's Full Name (type)					Date	

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Start Up Assignment

Goals

- ☐ Factor out GCF
- ☐ Factor trinomials where $a = 1$
- ☐ Factor trinomials where $a \neq 1$
- ☐ Factor difference of squares
- ☐ Factor harder cases where substitution is required

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Please answer all questions on this sheet and remember to show all your work for full marks!

Factor completely the following questions:

Note: If a question cannot be factored, state “prime” or “non-factorable” and explain the reason with words. (For example, no two numbers can be found such that they will multiply to ... and add to ...)

1) $x^2 + 6x - 40$

2) $x^2 - 11x + 20$

3) $-x^2 + x + 42$

4) $m^2 + 7mn - 8n^2$

5) $2x^2 - 72y^2$

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6) $30 - 17x + 2x^2$

7) $3x^4 - 16x^3 + 16x^2$

8) $16x^2 + 92xy - 24y^2$

9) $18m^4n^3 + 12m^3n^4 + 2m^2n^5$

Questions #10 – 12 are meant for students to apply substitution on factoring. Marks will be lost if students do not properly factor with substitution. For more practice questions on this, see Content -> Getting Started -> Task 3 -> Extra Practice Questions on Harder Factoring Cases

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10) $2(x + 7)^2 + 3(x + 7) - 27$

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*let  $y = x + 7$  and continue to factor*
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11) $8(2x - 1)^2 + 30(2x - 1) + 18$

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*let ____ = _____
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12) $(m - n)^2 + 6(m - n) + 9$

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*let  $y = m - n$  and continue to factor
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Self Assessment

How well do you think you did on this assignment?

Where do you think your overall understanding of this chapter is with the following scale? (Circle one)

Emerging Student demonstrates a <u>limited</u> understanding of the concepts and competencies relevant to the expected learning.	Developing Student demonstrates a <u>basic</u> understanding of the concepts and competencies relevant to the expected learning.	Proficient Student demonstrates a <u>strong</u> understanding of the concepts and competencies relevant to the expected learning.	Extending Student demonstrates an <u>extensive</u> understanding of concepts and competencies relevant to the expected learning.
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Is there an area or areas that you think you need more practice on? You can click all that apply using the chart below and/or add your own point(s).

- ☐ Factor out GCF
- ☐ Factor trinomials where $a = 1$
- ☐ Factor trinomials where $a \neq 1$
- ☐ Factor difference of squares
- ☐ Factor harder cases where substitution is required
- ☐ Additional point #1:

- ☐ Additional point #2:

- ☐ Additional point #3:

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Academic Integrity Student Contract

Plagiarism is presenting someone else's work as though it is your own. Plagiarism may consist of work copied from the Internet, work copied from another student, or work generated by Artificial Intelligence (AI) or other electronic means.

Plagiarism represents a failure of integrity. Plagiarism damages a student's character and limits the student's learning from the course.

VLN has a zero-tolerance policy on plagiarism. We use professional tools to identify plagiarized or AI-generated student submissions.

If you are caught plagiarizing course assignments or cheating on an exam, this incident will be documented in our MyEd provincial student information system. Plagiarism may result in VLN administration meeting with the student and their parents (for school-aged students). Repeated incidents of plagiarism may result in withdrawal from the course or school.

My Pledge to Academic Integrity

Please sign and date the following agreement:

I agree that I will not attempt to plagiarize work in any VLN course assignments or cheat on any VLN exams. I also agree that assignments I submit that are suspected of plagiarism may be scanned, stored, and accessed by US-based servers.

E-Signature

You can simply type in your name

Date

Please combine **all pages into 1 single PDF file** and submit it under Startup Assignment Folder.
All other formats will NOT be accepted. Thank you!

~The End~