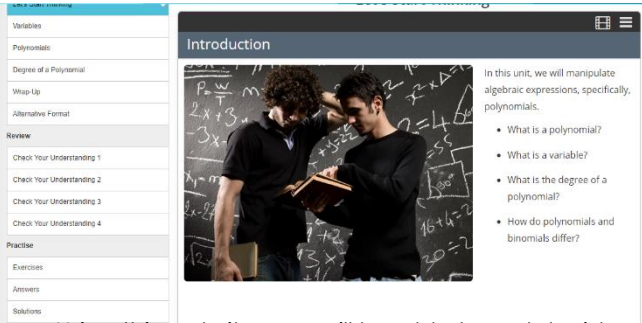


Essential Outcome	Lesson/Video	Practice Questions
<p>Review of Polynomial Basics</p> <ul style="list-style-type: none"> Identify the parts of a polynomial (degree, terms, variables, constant and coefficients) Identify the type of polynomial 	<p>https://courseware.cemc.uwaterloo.ca/41/133/assignments/1082/0</p>  <p>Using this website, you will be able to watch video, complete check your understanding questions and complete practice questions (with solutions).</p>	<p>Check your understanding Questions on the left-hand side of the website. You can generate as many as you wish. It will provide the answers and the practice questions provided on the left-hand side.</p>
<ul style="list-style-type: none"> Combine like terms to simplify a polynomial expression 	<p>What are like terms? https://courseware.cemc.uwaterloo.ca/41/assignments/1086/1 Combining like terms https://courseware.cemc.uwaterloo.ca/41/assignments/1086/2</p>	<ol style="list-style-type: none"> 1. Check your understanding questions/Practice questions on left-hand side 2. Questions provided below
<ul style="list-style-type: none"> Add polynomials (monomials and binomials) 	<p>https://courseware.cemc.uwaterloo.ca/41/assignments/1086/3 (watch this video up to 1:55)</p>	<ol style="list-style-type: none"> 1. Check your understanding questions/Practice questions on left-hand side 2. Questions provided below

- Practice Questions #1-15 for Simplifying Variable Expressions (with solutions)
<https://cdn.kutasoftware.com/Worksheets/PreAlg/Simplifying%20Variable%20Expressions.pdf>

The file will also be copied at the end of this document.

- Practice Questions for Adding polynomials (monomials and binomials)
<https://www.edhelper.com/polynomials2.htm> (file and solutions provided below)

Simplifying Variable Expressions

Date _____ Period _____

Simplify each expression.

1) $-3p + 6p$

2) $b - 3 + 6 - 2b$

3) $7x - x$

4) $7p - 10p$

5) $-10v + 6v$

6) $-9r + 10r$

7) $9 + 5r - 9r$

8) $1 - 3v + 10$

9) $5n + 9n$

10) $4b + 6 - 4$

11) $35n - 1 + 46$

12) $-33v - 49v$

13) $30n + 8n$

14) $7x + 31x$

15) $10x + 36 - 38x - 47$

16) $-2(7 - n) + 4$

17) $-8(-5b + 7) + 5b$

18) $-4p - (1 - 6p)$

19) $4 - 5(-4n + 3)$

20) $-7(k - 8) + 2k$

21) $1 + 7(1 - 3b)$

22) $3 - 8(7 - 5n)$

Simplifying Variable Expressions

Date _____ Period _____

Simplify each expression.

1) $-3p + 6p$

$3p$

2) $b - 3 + 6 - 2b$

$-b + 3$

3) $7x - x$

$6x$

4) $7p - 10p$

$-3p$

5) $-10v + 6v$

$-4v$

6) $-9r + 10r$

r

7) $9 + 5r - 9r$

$9 - 4r$

8) $1 - 3v + 10$

$11 - 3v$

9) $5n + 9n$

$14n$

10) $4b + 6 - 4$

$4b + 2$

11) $35n - 1 + 46$

$35n + 45$

12) $-33v - 49v$

$-82v$

13) $30n + 8n$

$38n$

14) $7x + 31x$

$38x$

15) $10x + 36 - 38x - 47$

$-28x - 11$

16) $-2(7 - n) + 4$

$-10 + 2n$

17) $-8(-5b + 7) + 5b$

$45b - 56$

18) $-4p - (1 - 6p)$

$2p - 1$

19) $4 - 5(-4n + 3)$

$-11 + 20n$

20) $-7(k - 8) + 2k$

$-5k + 56$

21) $1 + 7(1 - 3b)$

$8 - 21b$

22) $3 - 8(7 - 5n)$

$-53 + 40n$

Polynomials

(Answer ID = 0099352)

Add.

1. $(14x + 5) + (10x + 5)$	2. $(10x + 12) + (6x + 20)$
3. $(19x^2 + 12x + 12) + (7x^2 + 10x + 13)$	4. $(17x^2 + 20x + 11) + (15x^2 + 11x + 17)$
5. $(-15x^2 - 5x + 9) + (-6x^2 - 19x - 16) + (-15x^2 - 14x - 13) + (9x^2 - 14x + 20)$	6. $(-13x^2 - 13x - 10) + (19x^2 - 19x - 5)$
7. $(4x^2 - 6x + 7) + (-19x^2 - 15x - 18)$	8. $(-13x^2 - 5x - 14) + (-14x^2 - 20x + 8)$
9. $(20x^7 - 10x^6 - 9x^5 - 14x^4 + 18x) + (-6x^6 - 12x^5 - 9x^4 - 9x)$	10. $(-20x^2 + 13x - 4) + (11x^2 - 13x - 10)$
11. $(-14x^2 - 15x - 17) + (14x^2 + 9x - 17)$	12. $(-10x^6 + 18x^3 + 13) + (7x^6 - 7x^2 + 17)$
13. $(11x^2 + 5x + 6) + (18x^2 + 17x + 17)$	14. $(4x^2 - 19x + 15) + (-18x^2 + 15x + 16)$
15. $(-7x^2 + 14x + 17) + (19x^2 - 6x - 20) + (-14x^2 - 18x + 20) + (20x^2 + 19x + 17)$	16. $(-14x^7 + 19x^6 - 17) + (5x^5 - 10x^4 + 18)$
17. $(9x^6 - 4) + (10x^5 - 15x^4 + 14)$	18. $(-17x^6 - 6x^3 - 20x) + (-10x^4 + 9x^3 - 18)$
19. $(20x^2 + 15x + 13) + (-19x^2 + 17x + 5)$	20. $(5x^6 + 9x^3 - 6x) + (-9x^7 - 20x^2 - 6x)$

Solution

