hw-01a-polynomials-addition-multiplication

Due: 12/12/2015 at 06:00am EST.

Students will be able to:

- Add and Subtract Polynomials
- Multiply Polynomials

Functions and symbols that WeBWorK understands.

Links to some useful WeBWorK pages for students

1. (1 pt) When multiplied and simplified, the expression

$$7(3x^2+6x+5)-7(3x^2+3x+2) = \underline{\hspace{1cm}}$$

2. (1 pt) When simplified, the expression

$$(5x^2+4x+7)+(2x^2-2x-6) =$$

3. (1 pt) Multiply and simplify, the following expression.

$$(4x-6)(4x+7) =$$

4. (1 pt) Multiply and simplify the following expression:

$$(5x-3)(5x+3) =$$

5. (1 pt) Find the following expression when multiplied and simplified.

$$(5x+6)^2 =$$

6. (1 pt) Multiply and simplify the following expression.

$$(1-2x)^2 =$$

7. (1 pt) Multipy and simplify the following expression.

$$(7x+7)(2x-6) =$$

8. (1 pt) Multiply and simplify the following expression

$$(x-7)(x^2+5x+2) =$$

9. (1 pt) Given that

$$P(x) = 3x^3 - 5x - 4,$$

$$Q(x) = x^2 + 2x + 2,$$

$$R(x) = x^3 - 6$$

Then

$$P+Q=$$

and

1

$$R(P+Q) =$$

10. (1 pt) Simplify the following algebraic expression:

$$2(9x+1)-9 =$$

11. (1 pt) Simplify the following algebraic expression:

$$3(9y+3)-3(5y+3) =$$

12. (1 pt) Simplify the following algebraic expression:

$$1 - 2(5 - (9y - 5)) =$$

13. (1 pt) Simplify the following algebraic expression:

$$2x^2 + 4 - [9(x^2 - 2) + 7] =$$

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