Chapter 5 and 7 - Polynomials

LESSON 3: ADDING AND SUBTRACTING POLYNOMIALS

The opposite of a polynomial is found by taking the opposite of each of its terms

Ex. The opposite of  is:

 The opposite of  is:

To subtract a polynomial, you must add the opposite terms.

Remember: you can only add or subtract like terms. Use the model to help visualize the process.

|  |  |
| --- | --- |
|  = positive 1-tileBLM5-5-1c = positive *x*-tileBLM5-5-1fBLM5-5-1e = positive *x*2  |  = negative 1-tileBLM5-5-1d = negative *x*-tile = negative *x*2 |

Ex.1: Add the polynomials by collecting like terms.

a)  b) 

c) 

Ex.2: Determine the opposite of the expression represented by each diagram. Express the answer in diagrams and symbols.

a) b)

Ex.3: What is the opposite of each expression?

a)  b)  c) 

Ex.4: Subtract the following expression by adding the opposite terms.

a)  b) 

Ex.5: Simplify

a)  b) 

c)  d) 