NOTES: 3.3 Algebra Tiles Introduction

* Diagrams and models can be used to represent products.
* The variable algebra tile can represent any variable we like.
  + It is usually referred to as the *x-tile*

x2 x 1 -x2 -x -1

Ex. #1

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ADDITION & SUBTRACTION

* Combine like terms
  + Add or subtract the x2 , x and 1
* Simplify

Ex. #2



2x2 – 3x + 5

x2 – 2x -1



Ex. #3



Modeling Polynomials with Algebra Tiles

Complete the following chart. Simplify like terms.

|  |  |
| --- | --- |
| MODEL OF POLYNOMIAL | POLYNOMIAL |
| a) |  |
| b) |  |
| c) | 5-6x |
| d)  + |  |
| e) |  |
| f) |  |
| g) |  |

Write the polynomial represented by the following tile pictures.

|  |  |
| --- | --- |
| MODEL | POLYNOMIAL |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Add the following polynomials. Use your Algebra Tiles and draw tile models to help you solve the problems.

