Homework Number: hw04

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Due Date: Tuesday 2/18/2020 at 4:29PM

1. Theory Problems
   1. Determine the following in GF(11), please show your work:
      1. )-(

= -5-2x-9

* + 1. (

= 25+15+10+6+4x+35+21+21x+14

=25+25+25x+14

=3+3+3x+3

1/6 = 1

Product of and is , subtract it from the dividend , result is 2.

2/6 = 2

Product of 4x and is , subtract it from the dividend 2, result is 0.

Therefore,

* 1. For the finite field GF(), calculate the following for the modulus polynomial

=

=

=

=-x mod = x

* + 1. = 1 +

1. Programming Problem