**Q1**

1. f(x) = x3+2x
2. f(x) = 7x2−5x+3

Because number 1 has a larger exponent than the second one

b)

1. f(x) = x7−x5−x3−x
2. f(x) = x6+2844x5−x4+273x3

Again, the first polynomial contains a variable with a larger exponent than the second one.

c)

1. f(x) = x4
2. f(x) = 4x4 + x3

Since both functions have the same largest exponent, then the second polynomial will grow larger because x4 has a larger coefficient than the first function.

**Q2**

1. log2(x) = 8

28 = x

x = 256

1. log5(x) = log5(2) + 25

log5(x) - log5(2) = 25

log5(x/2) = 25

525 = x/2

x = 2\*525

1. x = log4(32)

4x = 32

22x = 25

2x = 5

x = 5/2

**Q3**

The value of the array greeting at the link would be “Howdy”, “Hello”, “Hey”. Because first we initialize the array with the values of “Hi”, “Hello”, “Hey”. But when we call for the change method, it changes the value in the 0th position being “Hi” to “Howdy”.

**Q4**

Text

Description automatically generated