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Comp Sci 359

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PRELIM 3

*Problem 1*

Add(Add(Multiply(Number 6.0,Power(Variable "x",Number 2.0)),Variable "x"),Number 3.0);;

*Problem 2*

*Problem 3*

*Problem 4*

let rec repLetter l n =

match n with

|0 -> ""

|\_ -> l + (repLetter l (n-1))

let abString a b =

(repLetter "a" a) + (repLetter "b" b)

*Problem 5*

let rec repeat x n =

match n with

|0 -> []

|\_ -> x::(repeat x (n-1))

let rec replicateElements li n =

match li with

|[] -> []

|h::t -> (repeat h n) @ (replicateElements t n)

*Problem 6*

let rec removeKthElement li (k:int) =

match li, k with

|[one], 1 -> []

|h::t, 1 -> t

|h::t, \_ -> h::(removeKthElement t (k-1))

*Problem 7*

let createListRange lo hi step =

[lo..step..hi]

*Problem 8*

*Problem 9*