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function print_poly(name, polynomial, pwr_form)
응 {
PRINT_POLY: prints the given polynomial to the command window in the
 form
            requested
INPUTS:
    name - a string containing the name of the polynomial ex: f(x)
    polynomial - the power form representation of that polynomial
    pwr_form - a boolean variable that tells the function what verison
 t.o
               print. If true, power form representation printed. If
 false,
               polynomial form is printed
응 }
poly_len = size(polynomial,2);
if(pwr_form)
    print_string = sprintf("%s = [", name);
else
    print string = sprintf("%s = ", name);
end
for i = 1:poly_len
    curr_a = polynomial(i);
    %if power form
    if(curr_a == -1 && pwr_form)
        print_string = strcat(print_string, " Inf");
    elseif(pwr_form)
        curr_string = sprintf(" %d", curr_a);
        print_string = strcat(print_string, curr_string);
    %if polynomial form
    elseif(curr_a ~= -1)
        x pwr = poly len - i;
        if(curr_a == 1)
            a_str = "a";
        else
            a_str = sprintf("a^%d", curr_a);
        end
        if(x_pwr == 1)
            x_str = "x";
        else
            x_str = sprintf("x^%d", x_pwr);
        end
        if(curr_a ~= 0 && x_pwr ~= 0)
            curr_string = sprintf("%s*%s + ", a_str, x_str);
        elseif(x_pwr ~= 0)
            curr_string = sprintf("%s + ", x_str);
        elseif(curr_a ~= 0)
            curr_string = sprintf("%s + ", a_str);
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