
```
function [localmat] = DuTrue(x_pts, isub, num)
%
% This function represents the diffusive function in the
% differential equation.
%
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Global Variables %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
global xpts nnds
global Global_r Global_s Global_u
global rad_bas_type str_bas_type vel_bas_type
global quad_rul
%
%

nevalpts = size(x_pts,1) ;

if num == 1
    %3x-3
    localmat = 3*ones(1,nevalpts)' ;
elseif num == 2
    %3x^2-3
    localmat = 6*x_pts;
else
    %x^4+1
    localmat = 4*x_pts.^3 ;
end
```

Published with MATLAB® R2023b