

```

% PIECEWISE LINEAR RAYLEIGH-RITZ ALGORITHM 11.5
%
% To approximate the solution of the boundary-value problem
%
%      -D(P(X)Y')/DX + Q(X)Y = F(X), 0 <= X <= 1,
%      Y(0) = Y(1) = 0,
%
% with a piecewise linear function:
%
% INPUT:   integer N; mesh points X(0) = 0 < X(1) < ...
%          < X(N) < X(N+1) = 1
%
% OUTPUT:  coefficients C(1),...,C(N) of the basis functions
syms('AA', 'OK', 'N', 'X', 'FLAG', 'HC', 'J', 'H', 'NAME');
syms('INP', 'N1', 'Q', 'ALPHA', 'BETA', 'B', 'A', 'ZETA');
syms('Z', 'C', 'J1', 'OUP', 'x', 'sqq', 'sp', 'sf', 'I');
TRUE = 1;
FALSE = 0;
fprintf(1, 'This is the Piecewise Linear Rayleigh-Ritz Method.\n');
fprintf(1, 'The M-file SIMPSON.M is used by this program.\n');
fprintf(1, 'Input F(X), Q(X), and P(X) in terms of X\n');
fprintf(1, 'on separate lines.\n');
fprintf(1, 'For example:  2*pi^2*sin(pi*x) \n');
fprintf(1, '                    pi^2 \n');
fprintf(1, '                    1 \n');
sf = input(' ', 's');
F = inline(sf, 'x');
sqq = input(' ', 's');
QQ = inline(sqq, 'x');
sp = input(' ', 's');
P = inline(sp, 'x');
fprintf(1, 'X(0), ..., X(N+1) are to be supplied.\n');
fprintf(1, 'Are the preparations complete? Answer Y or N.\n');
AA = input(' ', 's');
OK = FALSE;
if AA == 'Y' | AA == 'y'
OK = FALSE;
while OK == FALSE
fprintf(1, 'Input integer N where X(0) = 0, X(N+1) = 1.\n');
N = input(' ');
if N <= 1
fprintf(1, 'N must be greater than one.\n');
else
OK = TRUE;
end;
end;
X = zeros(1, N+2);
H = zeros(1, N+1);
Q = zeros(6, N+1);
A = zeros(1, N+1);
B = zeros(1, N+1);
C = zeros(1, N+1);
ALPHA = zeros(1, N+1);
BETA = zeros(1, N+1);

```



# Matlab Code Rayleigh Ritz

**M Carnoy**



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