

```

% Name (first and last)
% CSC 2262
% cs2262xx
% Sample 8b
a = 1;
b = 3;
g = @(x) x.*(x-1).^3./(x.^2-2*x+5);
h = @(x) (x+7)./(1+1/3*x.*sin(pi/4*(x-1)));
f = @(x,y) (x.*y+2*x+y.^2).*exp(y) ./ sqrt(3*x.^5+2*y.^4+7);
mass = quad2d(f,a,b,g,h,'RelTol',1e-7,'AbsTol',1e-7);
fprintf('mass = %.5f\n',mass);

```