% Compute edge detection with MATLAB,

% and compare with the outcome of problem (1).

% read edge\_patch (5\*5)

edge\_patch = imread('./images/edge\_patch.jpg');

% visualize edge patch

figure;

imshow(edge\_patch, 'InitialMagnification', 3000);

title('edge patch')

% canny edge detection

edge\_patch\_canny = edge(edge\_patch, 'canny')

% visualize canny edge

imshow(edge\_patch\_canny, 'InitialMagnification', 3000)

title('Canny Edge')