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% Homework 1
% Q. 3

% ---- clear ----
close all;
clear all;
clc;

% ---- (a) ----
f = @(n) exp(1j*(pi/10)*n);

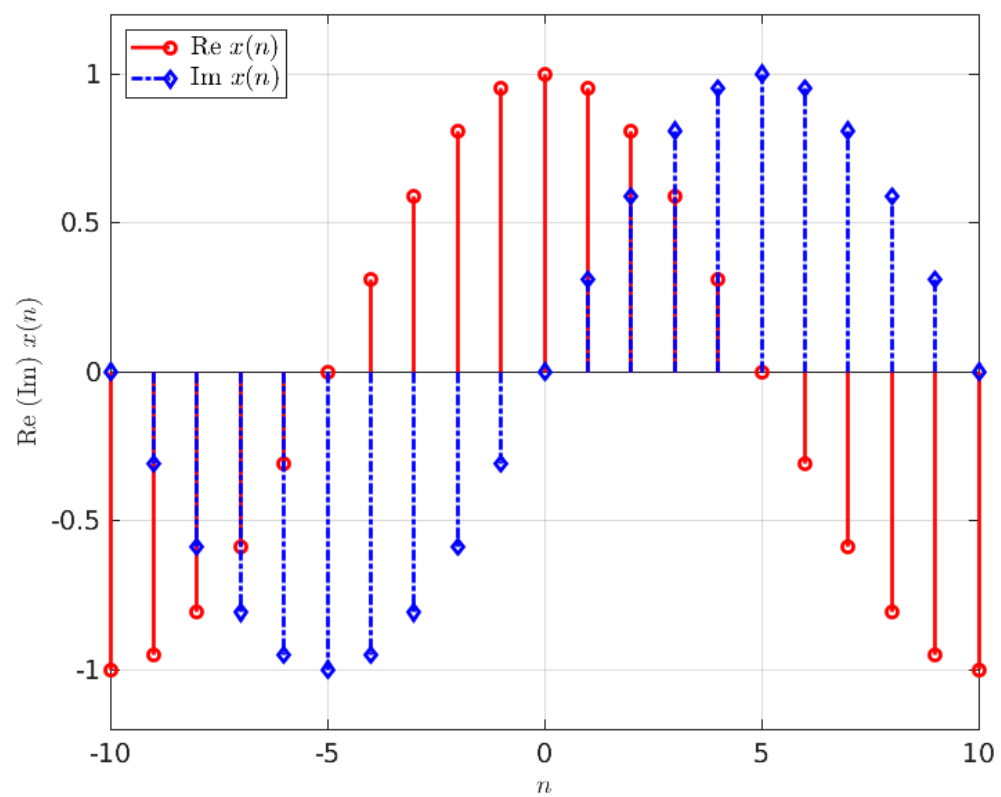
n = -10: 1: 10;
x = f(n);

% --- (b) ----
xr = real(x);
xi = imag(x);

f = figure(1);
f.Position = [10 10 800 640];
stem(n, xr, '-r', 'linewidth', 2);
hold on
stem(n, xi, '-.db', 'linewidth', 2);
hold off
grid on
legend('Re  $x(n)$ ', 'Im  $x(n)$ ', 'Location', 'Northwest');
xlabel('$n$')
ylabel('Re (Im)  $x(n)$ ')
xlim([-10, 10])
ylim([-1.2, 1.2])
set(findall(f, '-property', 'FontSize'), 'FontSize', 14);
set(findall(f, '-property', 'Interpreter'), 'Interpreter', 'latex');

saveas(f, 'hw01.eps', 'eps');

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