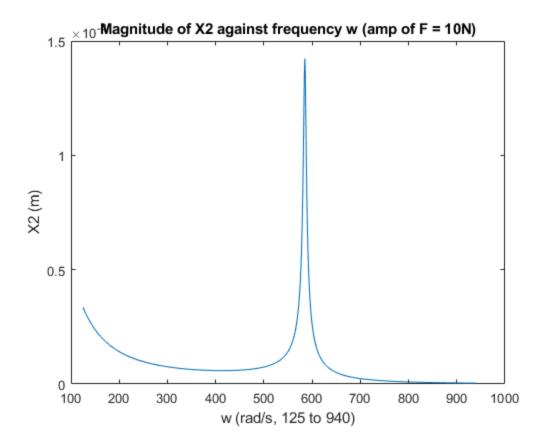
```
% Plotting the amplitude of X2 for mass m2 against angular frequency w
% between the ranges 125rad/s to 940rad/s with excitation force
% amplitude of 10N
% Author: Stephen Xie / Code Wizard
clear;
m1 = 1;
m2 = 1;
k = 171080;
c = 3;
F = 10;
X2vf = zeros(815,1);
w = zeros(815,1);
for freq = 125:1:940
    w(freq-124) = freq;
    delta = (k+li*freq*c-(freq^2)*m1)*(k+li*freq*c-(freq^2)*m2)-((-
k-li*freq*c)^2;
    X2vf(freq-124) = abs((k+li*freq*c)/delta);
end
X2 = X2vf*F;
plot(w, X2vf);
title("Magnitude of X2 against frequency w (amp of F = 10N)");
xlabel("w (rad/s, 125 to 940)");
ylabel("X2 (m)");
```

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