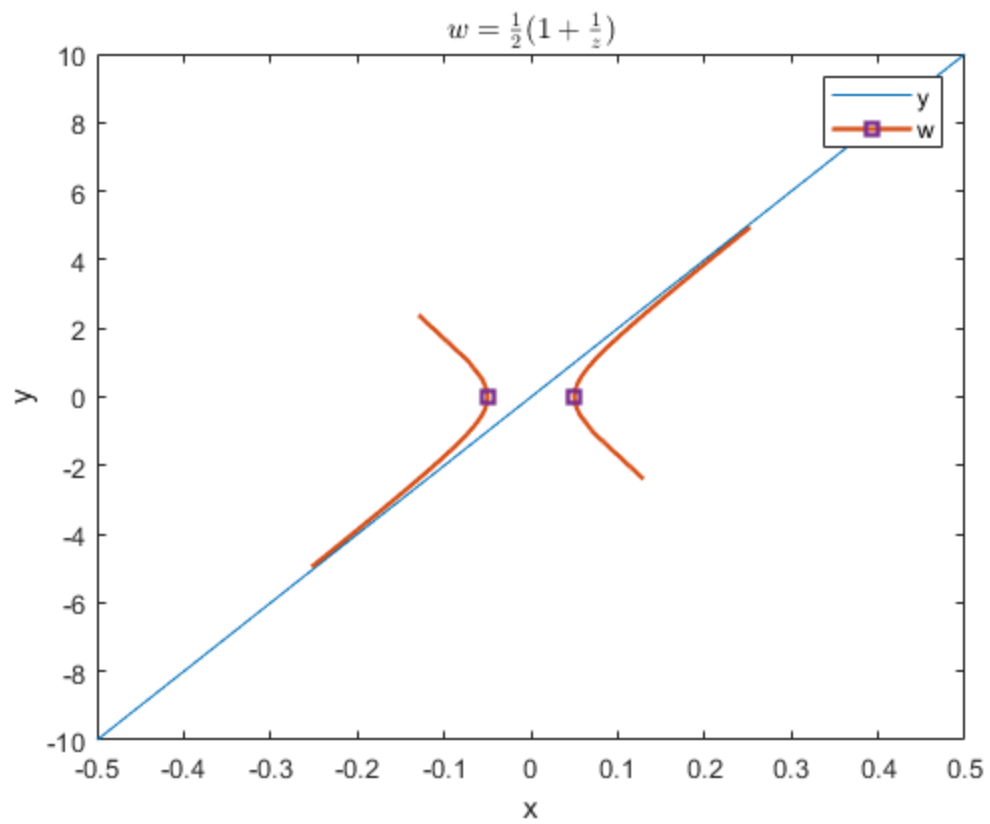

```
% ##### X
X = -0.5:0.01:0.5;
% #####
Y = (-1)^2*20*X;
% ##### Y

% #####
% #####
wX = 0.5*X.*(1 + 1./(X.^2+Y.^2));
wY = 0.5*Y.*(1 - 1./(X.^2+Y.^2));
% #####
w = wX + 1i*wY;
% ##### w
c = min(w);
ReC = real(c);
ImC = imag(c);
figure(1)
% #####
plot(X,Y);
hold on;
% #####
#####
% #####
plot(wX,wY, 'LineWidth',
1.6, 'Marker', 'square', 'MarkerEdgeColor', '#7E2F8E', 'MarkerIndices',
[46 56]);
legend('y', 'w');
xlabel('x');
ylabel('y');
title('$w = \frac{1}{2}(1+\frac{1}{z})$', 'Interpreter', 'latex');
```



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