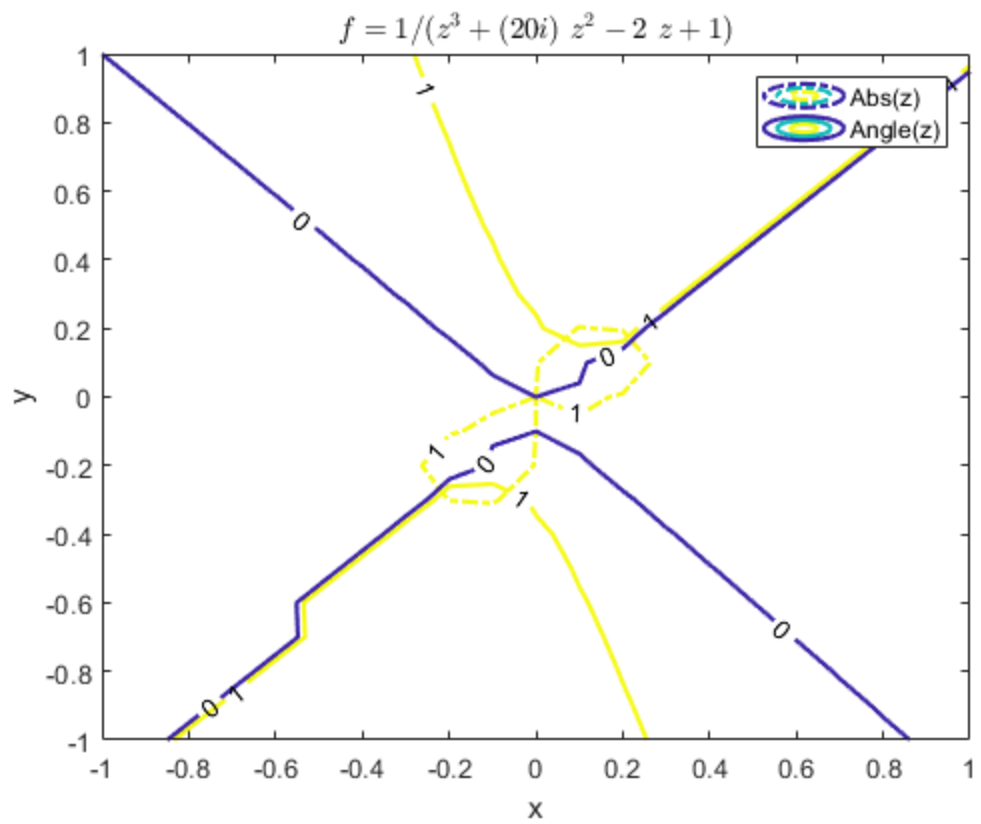


---

```
% #####
P = @(z) 1/(z.^3 + (1i.*20).*z.^2 - 2.*z + 1);
% #####
x = -1:0.1:1;
y = -1:0.1:1;
% #####
[X,Y] = meshgrid(x,y);
% ##### z - x+iy
% Q = ((X.^3 - 3*X.*Y.^2 - 40*X.*Y - 2*X + 1) - 1i*(3*X.^2 - Y.^3 +
20*X.^2 - 20*Y.^2 - 2*Y))/((X.^3 - 3*X.*Y.^2 - 40*X.*Y - 2*X + 1).^2
+ (3*X.^2 - Y.^3 + 20*X.^2 - 20*Y.^2 - 2*Y));
Q = 1./((X.^3 - 3*X.*Y.^2 - 40*X.*Y - 2*X + 1) + 1i*(3*X.^2 - Y.^3 +
20*X.^2 - 20*Y.^2 - 2*Y));
figure(1)
% #####
contour(X,Y,abs(Q),[0
1], 'ShowText','on','LineStyle', '-.', 'LineWidth', 1.6);
hold on;
% #####
contour(X,Y,angle(Q),[0 1], 'ShowText','on', 'LineWidth', 1.6);
hold off;
legend('Abs(z)', 'Angle(z)')
xlabel('x');
ylabel('y');
title('$f = 1/(z^3 + (20i)\ z^2 - 2\ z + 1)$', 'Interpreter', 'latex');
```



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