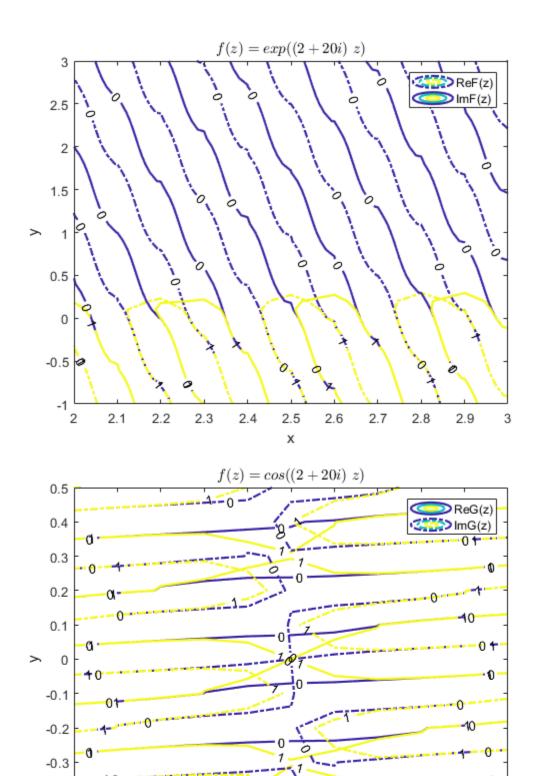
```
% ###################
F = @(z) \exp((2 + 20*1i).*z);
% ####### ####### #######
x = 2:0.1:3;
y = -1:0.1:3;
[X,Y] = meshgrid(x,y);
% ######## # ####### ##### z -> x + iy
ReF = \exp(2.*X - 20.*Y).*\cos(2.*Y+20.*X);
ImF = exp(2.*X - 20.*Y).*sin(2.*Y+20.*X);
contour(X,Y,ReF,[0 1], 'ShowText','on','LineStyle', '-.', 'LineWidth',
1.6);
hold on;
contour(X,Y,ImF,[0 1], 'ShowText','on', 'LineWidth', 1.6);
xlabel('x');
ylabel('y');
legend('ReF(z)', 'ImF(z)');
title('\$f(z) = exp((2 + 20i) \setminus z)\$', 'Interpreter', 'latex');
% ####### ######
G = @(z) cos((2 + 20*1i).*z);
% ####### ######## #######
x = -0.5:0.1:0.5;
y = -0.5:0.1:0.5;
[X,Y] = meshgrid(x,y);
% ######## # ####### ##### z -> x + iy
ReG = cos(2.*X - 20.*Y).*cosh(2.*Y+20.*X);
ImG = -sin(2.*X - 20.*Y).*sinh(2.*Y+20.*X);
figure(2);
% ###### ########################
contour(X,Y,ReG,[0 1], 'ShowText','on', 'LineWidth', 1.6);
contour(X,Y,ImG,[0 1], 'ShowText','on','LineStyle', '-.', 'LineWidth',
1.6);
xlabel('x');
ylabel('y');
legend('ReG(z)', 'ImG(z)');
title('f(z) = cos((2 + 20i) z)', 'Interpreter', 'latex');
```



-0.1

0

Х

0.1

0.3

0.4

0.5

0.2

-0.4

-0.5 -0.5 0 🕇

-0.4

-0.3

-0.2

