```
%Pratap Luitel
%Engs 92
%Assignment 7, Problem 4 (7.20)
x = -20:1:20;
z1 = x + eps*1i;
z2 = x - eps*1i;
w1 = z1.^(1/2);
w2 = z2.^(1/2);
figure
subplot(2,1,1)
plot(x,real(w1),'r:',x,real(w2),'b:')
axis equal
legend('real(w1)','real(w2)')
subplot(2,1,2)
plot(x,imag(w1),'r*',x,imag(w2),'b*')
axis equal
legend('imag(w1)','imag(w2)')
        8
                                                       ······· real(w1)
        6
                                                             real(w2)
        4
        2
        0
        -2
        -4 E
                                              5
               -15
                       -10
                               -5
                                       0
                                                     10
                                                            15
                                                                    20
        -20
        5
                                                            imag(w1)
                                                            imag(w2)
        0
```

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-20

-15

-10

-5

0

5

10

15

20