```
%Pratap Luitel
%Engs 92
%Assignment 7, Problem 4b (7.20)
y = -20:1:20;
z1 = 1 + y*1i;
z2 = -1 + y*1i;
w1 = z1.^(1/2);
w2 = z2.^(1/2);
figure
subplot(2,1,1)
plot(x,real(w1),'r:',x,real(w2),'b:')
legend('real(w1)','real(w2)')
subplot(2,1,2)
plot(x,imag(w1),'r*',x,imag(w2),'b*')
legend('imag(w1)','imag(w2)')
        4
                                                              · real(w1)
        3
                                                              real(w2)
        2
        1
        0 L
-20
                -15
                       -10
                               -5
                                       0
                                               5
                                                      10
                                                             15
                                                                     20
        4
                                                             imag(w1)
        2
                                                             imag(w2)
        0
        -2
```

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-15

-10

-4 L -20

-5

5

0

10

15

20