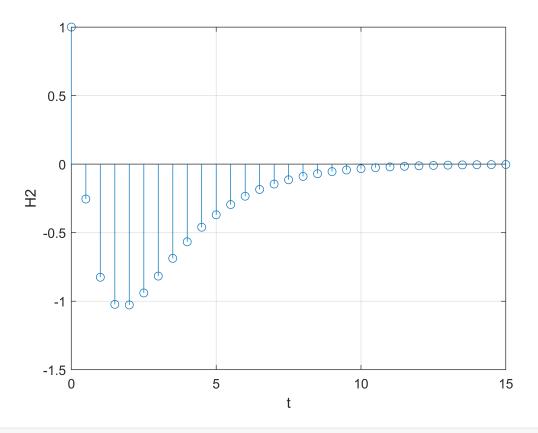
```
b1=[1,-2];
a1=[1,1.5,0.5];
[r1,p1]=residue(b1,a1);
H2=0;
t=[0:0.5:15]
t = 1 \times 31
              0.5000
                        1.0000
                                  1.5000
                                            2.0000
                                                      2.5000
                                                                3.0000
                                                                         3.5000 ...
for d=1:length(r1)
     H2=H2+r1(d).*exp(p1(d).*t)
end
H2 = 1 \times 31
    6.0000
              3.6392
                        2.2073
                                 1.3388
                                           0.8120
                                                      0.4925
                                                               0.2987
                                                                         0.1812 ...
H2 = 1 \times 31
    1.0000
             -0.2548
                                                                         -0.6877 ...
                       -0.8254
                                 -1.0231
                                          -1.0274
                                                    -0.9400
                                                               -0.8169
stem(t,H2);xlabel('t'),ylabel('H2');grid on;
```



%from the picture, we can know that the value at every point is finite and %h1(t) is convergent, so h1(t) is absolutely integrable.