DSP Assignment (1507127) Samercuti Dash

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1. Write a MATLAB program to verify the foll pholilerus.
 The signals 2(t) = cot(26+17+) & 2(t) = EAT (6914)
 are both sampled with for 10 HZ. Show that the till
  sequences of samples so obtained and identified.
  Editor Dindow
  n=0:10;
  fs = 10%
  T= Yts)
  t= MaTy
  761 = cos (26+pi++))
  22 = cos (6 + pi +t);
  dix p ( sampled signal x(1: 7),
   (x1)
   dixp (Isampled Signed 22.1);
   dexp(22);
   Subplot (3,11), stem (x, x,1);
   xlabel ('index H); ylabel ('x1);
   Subplot (2,1,2), stem (11,12);
   xlabel ('index m); yearel ('x2/);
  COMMAND MINDOW:
   Sampled signed X1:
    1.00 - 0.3090 - 6, 2090
                                   0.8090 0. 3090
   -1.000. 0.3090 0.8690
                                 -0.8090 -0,3090
    1.000
  Sampled signal X2:
                       - 0.8090 0.8090 0.2090
   1,000 - 0,3090
  -1.000 0.3090 0.8090
                                  -0.8090
                                           -0.3090
```

1.000

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1) Desumines the amplitude suspense H(=10) & Anialians
  of series of H(2) for the given impulse trosporter
  n(x) - 43,-1,-7, 4,5,4,-7,-1,0p
-> n(+) · くかールニヨ, 4,54, - 7, 1,27
 H(2)= 3-2-1-72-2449-3 +59-7442-5-72-12-61.
                          2-7-127.8
 H(w): 3- E 2 - 7e 20 + 4E 200 + 5e 40 + 40 40
        -7e-4- e 75- +2e-85-
   MATLAB
   PRITOR WINDOW
   n:[3 -1 -9 4.5 4 - 7 - 13])
   den = [1];
   sys = y ( h, dan);
    Z = Zero ( hyr) >
    exp ( 'zeros of ystem are: 1);
    dup (2),
    suplet (2,1,1), stam(2);
    title ( seros of the cyclem');
     h = leight (h);
     4: dept (4, 4))
     suspent (2,1,2), stem (1: n,1+))
     qualed ('index n'), glabel ('H(w))), title ('Amplitude
                                             newar!)
    function [x]: altfr (x, n)
     we timpace (-pi, pi, length (m));
     X= X carp (-1) + n'+w);
     und
     COMMAND WINDOW!
     zeros of the system are:
     -1.6028
                           1. 1284 +0. 57760
     - U 550644 8848L
                           1-1284 -0.57766
     . b. 3506-6, 8348i
                           0. 9011 + 6.35952
     - 0. 62.29
                            01 7022 - 0 35956
```











