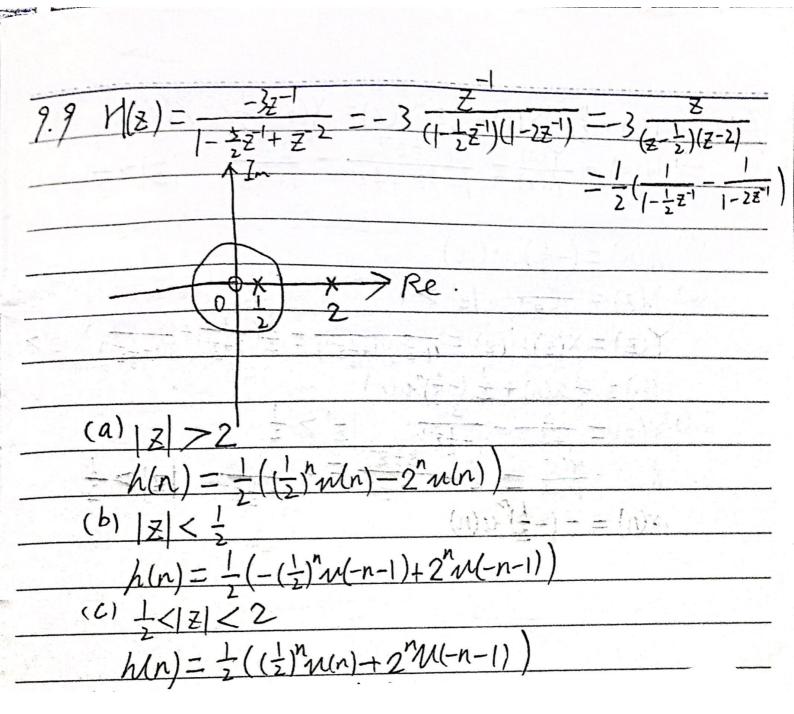


```
1-22-112-3
 (()
1+32-1+22 1+ 2-1+Z
           1+32 +222
             -22-Z
             -2Z-6Z-4Z-3
                 522+1523+/027
                    -112-3-102-x
-112-3-332-x-222-5
232-x-222-5
           ) - 1/Z-+
              121-3-48
                   4+42
                   4+242+3222
                     -202-3222
                     -202-1202'-16023
                          8922+16023
              x(-1)=-4, x(-2)=32, x(-3)=-160, x(-4)=704
  \Lambda(0) = 0
```



$$\frac{9 \cdot |2^{(A)} Y(z) + \frac{1}{6}z^{-1}Y(z) + \frac{1}{6}z^{-2}Y(z) = X(z) + \frac{1}{2}z^{-1}X(z)}{|z| + \frac{1}{6}z^{-1} + \frac{1}{6}z^{-1}} = \frac{1}{1 + \frac{1}{3}z^{-1}} |z| > \frac{1}{1 + \frac{1}{3}z^{-1}} |z|$$

$$\frac{9.14^{-(A)} H(\Xi) = \frac{Z}{(Z-1)(Z+\frac{1}{3})}}{H(B) H(\Xi) = \frac{1}{(1-z^{-1})(1+\frac{1}{3}z^{-1})} = \frac{1}{4}(\frac{1}{1+\frac{1}{3}z^{-1}} + \frac{3}{1-z^{-1}}) |Z| > 1$$

$$\frac{h(n) = \frac{1}{4}((-\frac{1}{3}) \ln n) + \frac{3}{3} \ln n)}{h(n) = \frac{1}{4}((-\frac{1}{3}) \ln n) + \frac{3}{3} \ln n)}$$

$$\frac{(C) Y(Z)}{X(Z)} = \frac{1}{1-\frac{2}{3}Z^{-1}-\frac{1}{3}Z^{-1}}$$

$$Y(Z) = \frac{1}{1-\frac{2}{3}Z^{-1}-\frac{1}{3}Z^{-1}}$$

$$Y(Z) = \frac{1}{1+2Z^{-1}} |Z| > 2$$

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$$Y(Z) = \frac{1}{1+2Z^{-1}} |Z| > 2$$

$$Y(Z) = \frac{4}{5}(-2)^{n} \ln n + \frac{1}{4} \ln n - \frac{1}{12}(-\frac{1}{3})^{n} \ln n$$

$$y(n) = \frac{4}{5}(-2)^{n} \ln n + \frac{1}{4} \ln n - \frac{1}{12}(-\frac{1}{3})^{n} \ln n$$

