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$$F(Z) = \frac{1}{(1-0.5z^{-1})(1-0.75z^{-1})(1-z^{-1})}$$

$$= \frac{z^{3}}{(z-0.5)(z-0.75)(z-1)}$$

$$= \frac{z^{2}}{(z-0.5)(z-0.75)(z-1)}$$

$$= \frac{z^{2}}{(z-0.75)(z-1)}$$

$$= \frac{z^{2}}{(z-0.75)(z-1)}$$

$$= \frac{z^{2}}{(z-0.75)(z-1)}$$

$$= \frac{z^{2}}{(z-0.75)(z-1)}$$

$$C_{1} = \frac{2}{(2-0.75)(2-1)} |_{z=0.5}$$

$$= \frac{0.5}{25} = \frac{2}{2}$$

$$= \frac{2}{(2-0.75)(2-1)} |_{z=0.5}$$

$$V_{2} = \frac{2^{2}}{(2-0.5)(z-1)}\Big|_{z=0.75}$$

$$= \frac{(0.75)^{2}}{0.25\pi-0.45}$$

$$V_{3} = \frac{1^{2}}{(2-0.5)(z-0.15)}\Big|_{z=1} = \frac{1^{2}}{0.5.025}$$

$$(3 - \frac{7^2}{(2-0.5)(2-0.75)}) = \frac{1^2}{2=1} = \frac{8}{2}$$

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$$F(z) = 2 - 9 + 8$$
 $Z = 0.5 = 2-0.75 = 2-1$

$$F(z) = \frac{2z}{z-0.5} - \frac{9z}{2-0.5} - \frac{8z}{z-1}$$

$$a^{\text{M}} \Leftrightarrow \frac{2}{2-a}$$

$$f[1] = \frac{1}{2} - \frac{9 \times 3}{4} + 8 = \frac{2}{4} - \frac{21}{4} + \frac{32}{4} = \frac{13}{4}$$

$$f[2] = 2(0.5)^{2} - 9(0.75)^{2} + 8 = 25 3.4375$$

 $f[n] \rightarrow 8 \quad N \rightarrow \infty$