

Partial Fraction Examples

Consider the causal system function

$$H(z) = \frac{2 + 3z^{-1}}{\left(1 - \frac{1}{2}z^{-1}\right)\left(1 + \frac{1}{4}z^{-1}\right)}$$

- Find the impulse response $h[n]$
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Consider the causal system function

$$H(z) = \frac{2 + 3z^{-1}}{\left(1 - \frac{1}{2}z^{-1}\right)\left(1 + \frac{1}{4}z^{-1}\right)}$$

- For $x[n] = (1/3)^n u[n]$ find the system output $y[n]$
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