

Dsp Lab #5

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Zon

$$1. \quad H(z) = \frac{10z^3}{(z^4 - 0.81)}$$

$$= \frac{10z^3}{(z^2 + 0.9)(z^2 - 0.9)}$$

$$= \frac{10z^3}{(z^2 + 0.9)(z + 0.95)(z - 0.95)}$$

$$\therefore \text{Zeros} = 0$$

$$\therefore \text{poles} = \pm 0.95$$