



$$\text{ROC} = \{ z \mid |z| > 0.5 \}$$

$$H1(z) \times H2(z) = \frac{0.5 + z^{-1} + 0.5z^{-2}}{1 - 0.4z^{-1} + 0.08z^{-2}} \times \frac{1 - z^{-1} + 0.25z^{-2}}{1 - 0.6z^{-1} + 0.25z^{-2}}$$

Fig. Magnitude frequency response 1*2 is same as
Fig. Magnitude frequency response

Fig. y[n] is same as Fig. h[n]