

Assignment

Find the total response of the following equation:

$$y[n] - \frac{1}{2}y[n-1] = x[n]$$

Hints:-

- (i) Homogeneous Solution $y_h[n]$
- (ii) Particular Solution $y_p[n]$
- (iii) Total Solution $y[n]$
- (iv) Check total response at 0, 1 & soon.