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Question: The impulse response of LTI system is.

 $x(n) = \{1, -3, \frac{2}{4}, 1\}$ 

Deterronène the response of the system to the input signal

$$h(n) = \{1, 2, 2, 1\}$$

Answere:

=) 
$$V_3(x) = \{0,0,0,1,0,0,0\}$$

$$V_{-2}(n) = \kappa(12) h(-2-14)$$

So, the system response will be as

below -

$$y(x) = \{ ..., 0, 0, 1, -1, -2, 0, 3, 4, 1, 0, 0, ... \}$$