

2024 Sep 25

$$x[n] \rightarrow y[n] = 10 x[n-14] + \cos(22\pi n)$$

$$y_1[n] = 10 x_1[n-14] + \cos(22\pi n)$$

$$y_2[n] = 10 x_2[n-14] + \cos(22\pi n)$$

$x_3[n] = x_1[n-m]$ . What is  $y_3[n]$ ?

$$y_3[n] = 10 x_3[n-14] + \cos(22\pi n)$$

$$= 10 x_3[\underline{n-m} - 14] + \cos(22\pi n)$$