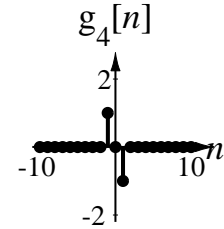
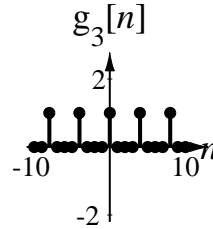
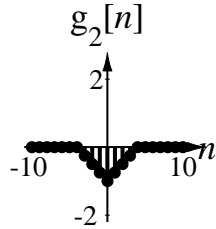
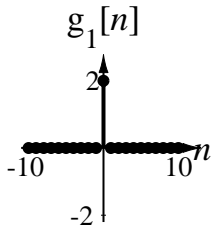


Solution to ECE 315 Test #5 F03

Below are four DT functions, $g_1[n]$, $g_2[n]$, $g_3[n]$ and $g_4[n]$. Below them are graphs of 8 DT functions labeled a, b, c, d, e, f, g, h. Circle which of the 8 functions (if any) is the indicated convolution in each case. If none of them is, circle "none of these". (1 pt each)



(a) $g_1[n] * g_1[n]$ none of these

(b) $g_2[n] * g_2[n]$ none of these

(c) $g_3[n] * g_3[n]$ none of these

(d) $g_4[n] * g_4[n]$

(e) $g_1[n] * g_2[n]$

(f) $g_1[n] * g_3[n]$

(g) $g_1[n] * g_4[n]$

(h) $g_2[n] * g_3[n]$

(i) $g_2[n] * g_4[n]$

(j) $g_3[n] * g_4[n]$