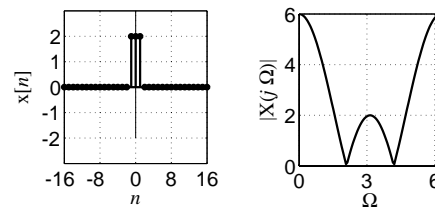
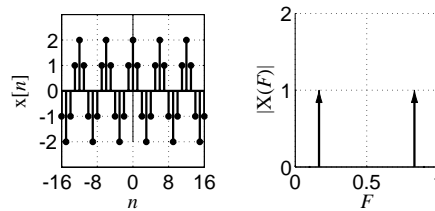
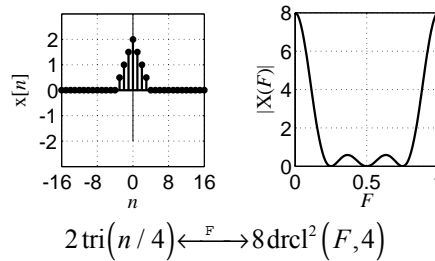
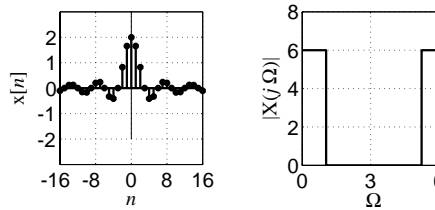
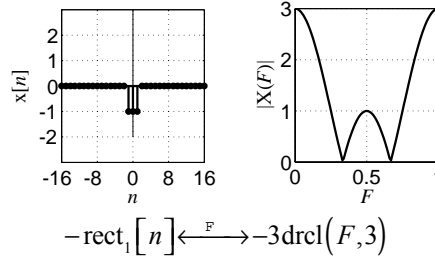
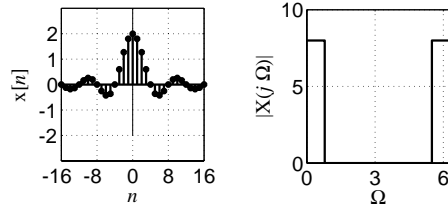


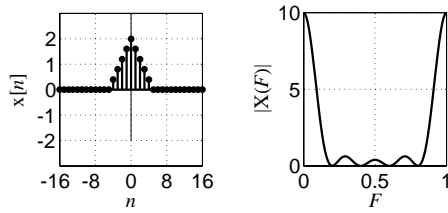
# Solution of ECE 315 Test 9 F05

Match the time-domain DT functions to their DTFT magnitude plots by writing the correct letter in the blank space above the graph. If there is no match, just write "none".

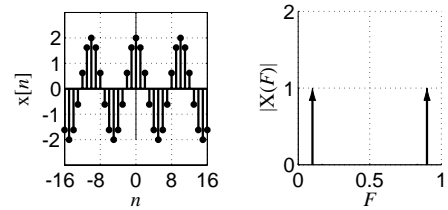




$$2\text{sinc}(n/4) \xrightarrow{\mathcal{F}} 8\text{rect}(8F) * \text{comb}(F) \Rightarrow X(j\Omega) = 8\text{rect}(4\Omega/\pi) * \text{comb}(\Omega/2\pi)$$



$$2\text{tri}(n/5) \xrightarrow{\mathcal{F}} 10\text{drc}l^2(F, 5)$$



$$2\cos(2\pi n/10) \xrightarrow{\mathcal{F}} \text{comb}(F - 1/10) + \text{comb}(F + 1/10)$$