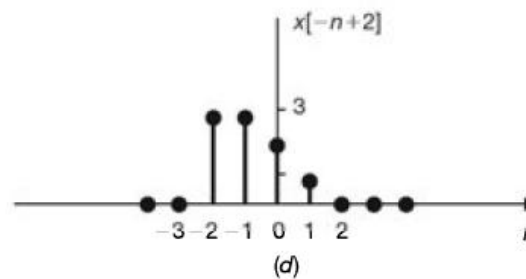
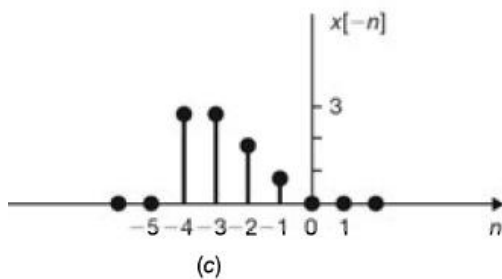
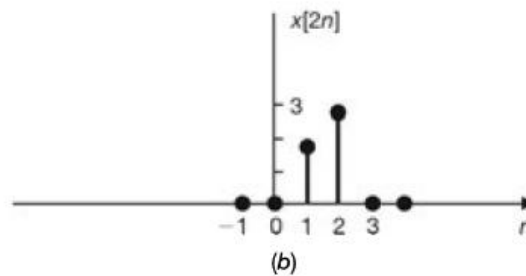
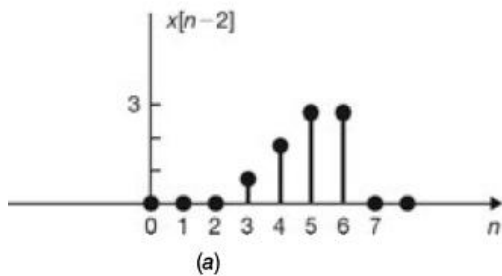




مذاكرة معالجة اشارة

اسم الطالب

السؤال الأول: (8 درجة)



السؤال الثاني: (4 درجات)

(a) $T_s = 0.25$ s.

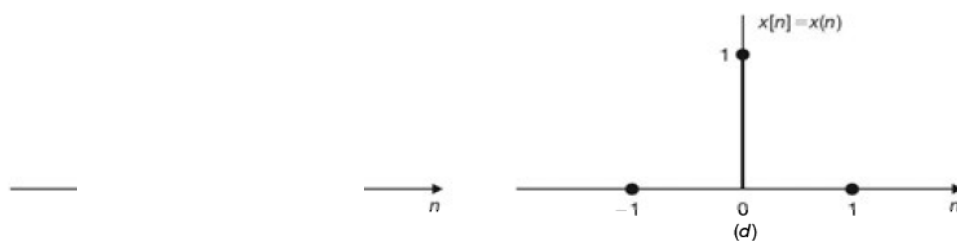
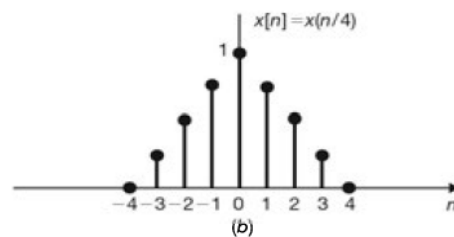
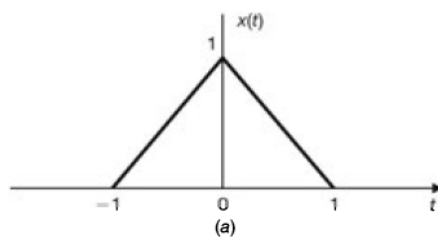
$$x[n] = \{ \dots, 0, 0.25, 0.5, 0.75, 1, 0.75, 0.5, 0.25, 0, \dots \}$$

↑

(c) $T_s = 1$ s.

$$x[n] = \{ \dots, 0, 1, 0, \dots \} = \delta[n]$$

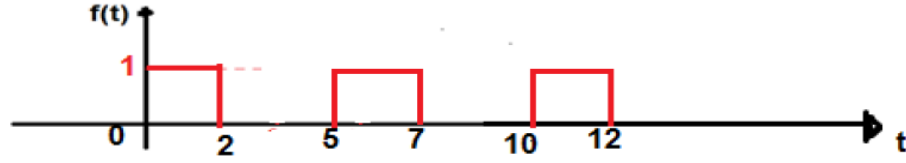
↑





مذاكرة معالجة اشارة

اسم الطالب
السؤال الثالث: (3 درجات)



الحل : الدور $T = 5$

$$f_1(t) = u(t) - u(t - 2)$$

$$F_1(p) = L(f_1(t)) = \frac{1}{p} - \frac{1}{p} e^{-2p} = \frac{1}{p} (1 - e^{-2p})$$

$$F(p) = \frac{F_1(p)}{1 - e^{-pT}} = \frac{1 - e^{-2p}}{p(1 - e^{-5p})}$$

انتهت الأسئلة