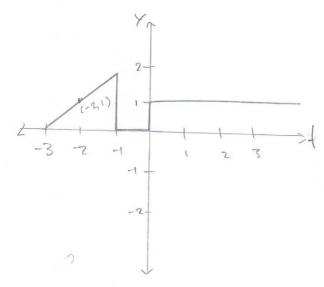


()
$$x(1+2) + u(2+)$$



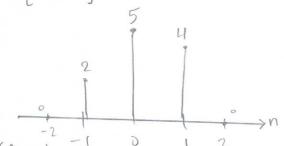
(a) length(x) = 5, support(x) =
$$\frac{2}{1} \le n \le 3\frac{5}{3}$$

(c)
$$26[n+1] + 36[n] + 55[n-1] + 6[n-2] + 45[n-3]$$

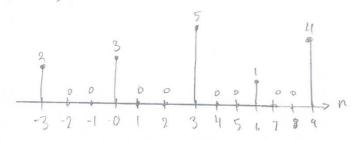
$$(d) \times [2-n] + 3u[2n-1]$$



(e)
$$\times [2n+1]$$



$$f)$$
 (13) \times



45 ws (w+ + tun (1/2))

(b) DC Power:
$$|c_0|^2 = |2|^2 = 4 \text{ W}$$

Fundamental frequency: $|c_1|^2 + |c_{-1}|^2 = |3+j4|^2 + |3-j4|^2$
 $= 50 \text{ W}$
Second Harmonic: $|c_2|^2 + |c_{-2}|^2 = |1-j2|^2 + |1+j2|$

(c)
$$||x(+)||^2 = \frac{3}{8} ||a_m||^2 = \frac{1}{4} \int ||x(+)||^2 dt$$

 $||x(+)||^2 = \frac{3}{8} ||a_m||^2 = \frac{1}{4} \int ||x(+)||^2 dt$
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