

1-

$$-v \leq n \leq v \Rightarrow -v \leq \frac{v}{\omega} \leq v \Rightarrow -\frac{v}{\omega} \leq \frac{v}{\omega} \leq \frac{v}{\omega} \Rightarrow P_{\frac{v}{\omega}} \in \left[-\frac{v}{\omega}, \frac{v}{\omega}\right]$$

2-

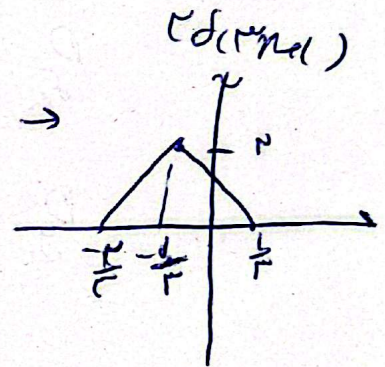
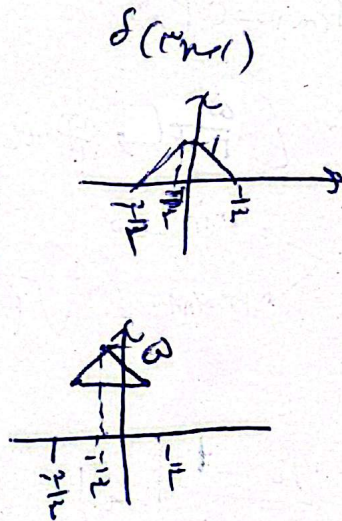
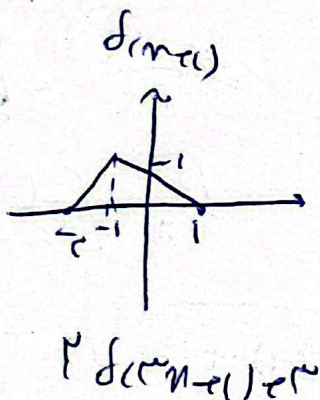
$$-1 \leq n \leq 1 \Rightarrow -1 \leq \frac{v}{\omega} \leq 1 \Rightarrow P_{\frac{v}{\omega}} \in [-1, 1]$$

3-

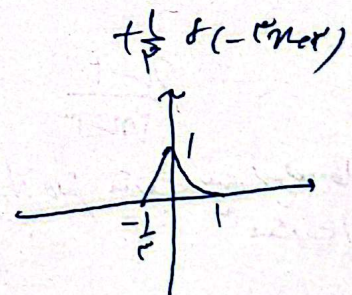
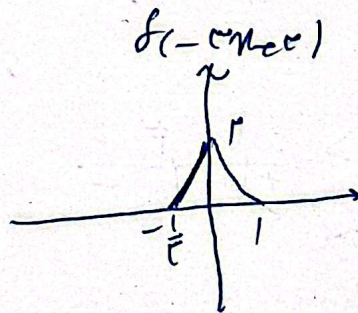
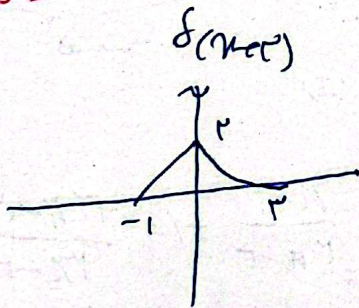
$$-1 \leq n \leq 1 \Rightarrow -1 \leq \frac{v}{\omega} \leq 1 \Rightarrow P_{\frac{v}{\omega}} \in [-1, 1]$$

$$-1 \leq 1-\omega n \leq 1 \Rightarrow -v \leq -\omega n \leq v \Rightarrow P_{\frac{v}{\omega}} \in \left[-\frac{v}{\omega}, \frac{v}{\omega}\right]$$

4-



5-



6-

$$P_{nt} \left\{ \begin{matrix} \frac{v}{\omega} \\ \frac{v}{\omega} \end{matrix} \right\}$$

$$\frac{v}{\omega} + x \leq v \Rightarrow x \leq \frac{v}{\omega}$$

$$-\frac{1}{\omega} (v - \frac{v}{\omega}) \leq \frac{v}{\omega} (v - \frac{v}{\omega}) \leq \frac{v}{\omega} \Rightarrow \begin{matrix} v_1 \leq v \\ v_2 \leq 1 \end{matrix}$$

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$$\checkmark - (n+1) \leq n \Rightarrow n \leq \frac{1}{2}$$

$$|f(n)| \leq \beta \Rightarrow \beta \leq \frac{1}{2}$$

1-

$$D_{f(n)} = (a+1, a) \quad D_{f(n+1)} = [-5, b-1)$$

$$(a+1, a) \cap [-5, b-1) = (c, d) \quad \begin{cases} a+1 \leq -5 \Rightarrow a \leq -6 \\ b-1 \leq a \Rightarrow b \leq a+1 \end{cases}$$

$$a \leq -6$$

4-

$$|f(n) - c| > 1 \Rightarrow \text{مستقیم} \Rightarrow D_c = D_{f(n)}$$

$$D_{f(n)} = \left[\frac{1}{f-1}, \frac{1}{f} - a \right] \Rightarrow D_{f(n)} = \left[-\frac{1}{f}, \frac{1}{f} \right]$$

$$D_{f(n)} \begin{cases} \min \leq a \\ \max \leq \sqrt{|f(n-1) - c|} = \sqrt{a} \end{cases} \Rightarrow D_c = [0, \sqrt{a}]$$

6-

$$g(n) = \left| \frac{n-1}{n-2} \right| + 1$$

$$n+1 + \left| \frac{n-1}{n-2} \right| < \dots$$

$$\frac{n-1}{n-2} \Rightarrow \frac{1}{1 + \frac{1}{n-2}}$$

کمتر از صفر مثبت است
مثبت است

$$\frac{n-1}{n-2} + 1 \leq \frac{n-1}{n-2}$$

$$\frac{n-1}{n-2} + n < \dots \rightarrow n^{n-1} > \dots \begin{cases} n > \sqrt{n} - 500 \\ n < -\sqrt{n} \\ n < -\sqrt{n} \end{cases}$$