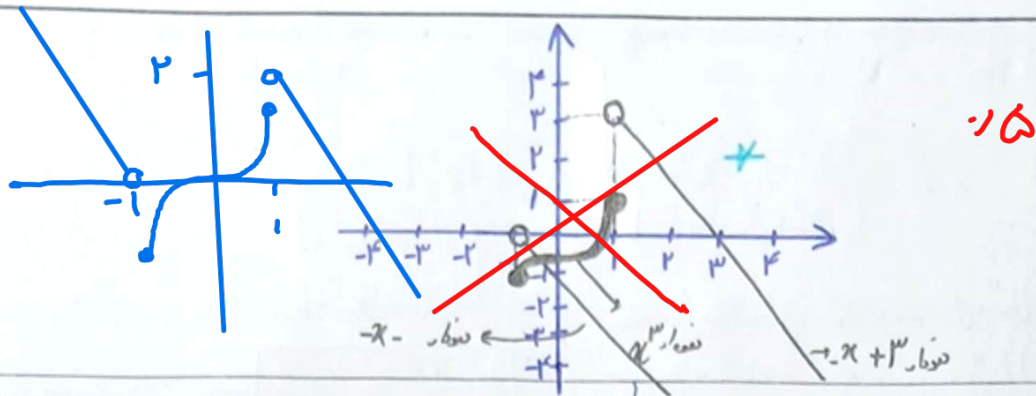




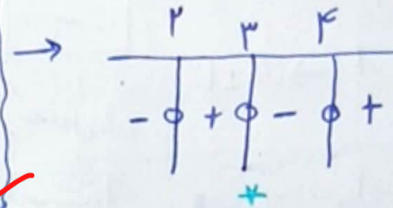
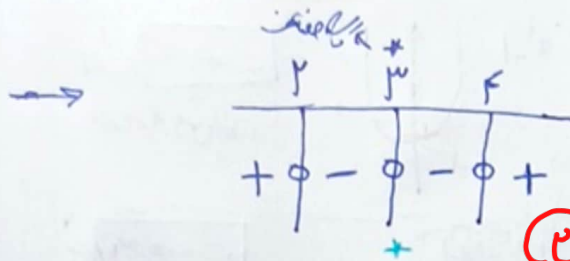


$$y = (x-2)(x-3)^2(x-4)$$

(ب)

$$y = (x-2)(x-3)(x-4) \quad (\text{الف})$$

الفم

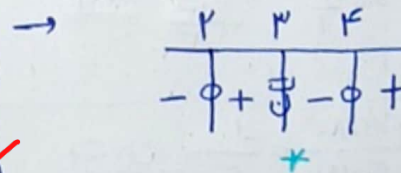
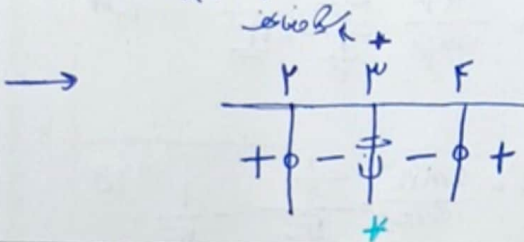


$$y = \frac{(x-2)(x-4)}{(x-3)(x-5)}$$

(b)

$$y = \frac{(x-1)(x-4)}{x-3}$$

الف

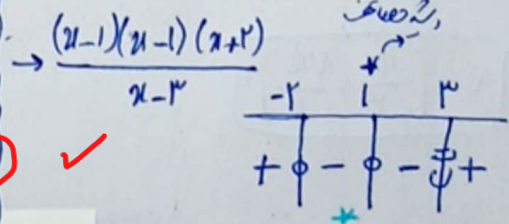
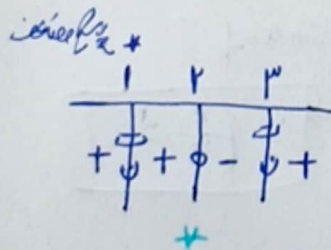


$$y = \frac{x^p - 1}{x - 1} x + 1$$

1.

$$y = \frac{x^p - p x + 1}{x - p} \rightarrow (x-1)(x-1) \left(\frac{-1}{x+p} \right)$$

$$\rightarrow \frac{(x-1)(x-2)}{(x-1)(x-3)}$$



$$y = \frac{x^r + rx + r}{x^r + rx + r} \rightarrow (1)$$

(ب)

$$y = \frac{x^5 - x^4}{x^4 + x + 1}$$

(الف)

$$\textcircled{1} \Delta = 9 - 14 = -5 \Rightarrow \Delta < 0 \rightarrow \text{2 sol. imag.}$$

(2) $\Delta = F - 12 = -1 \Rightarrow \Delta < 0 \rightarrow$ لا يحقق

عبدالرحمن حقیق بنارند پس دعوت و تبلیغ در مساجد و تفریق مسلمانان

$$\rightarrow \frac{n^2(n+1)(n-1)}{n^2+n+1}$$

