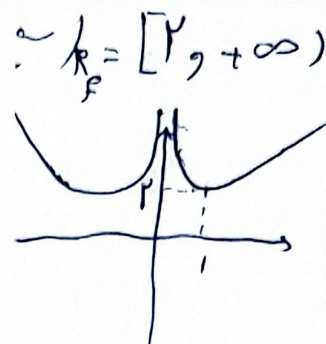
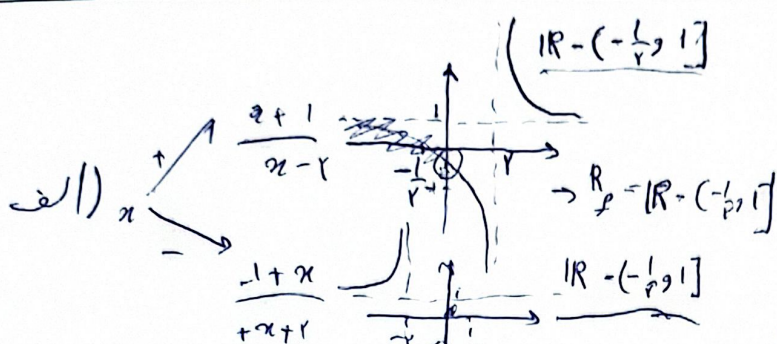
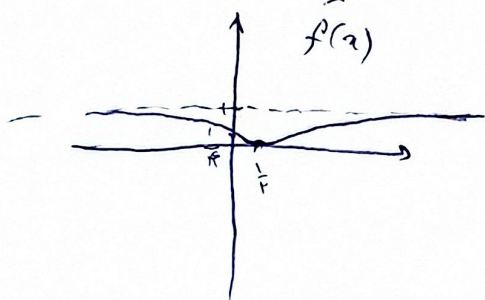
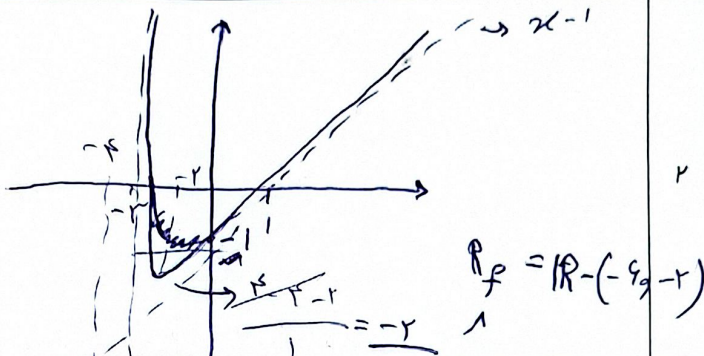


نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۵ کلاس A



$$f'(n) = \frac{(n+r)(n+1) - 2nr}{(n+r)^2}$$

$$= \frac{n^2 + 4n + 1}{(n+r)^2}$$

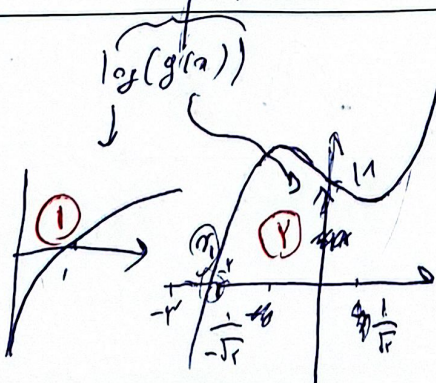
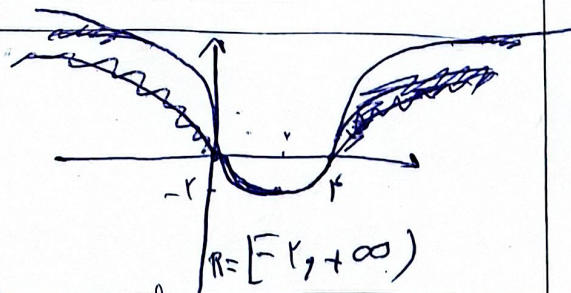
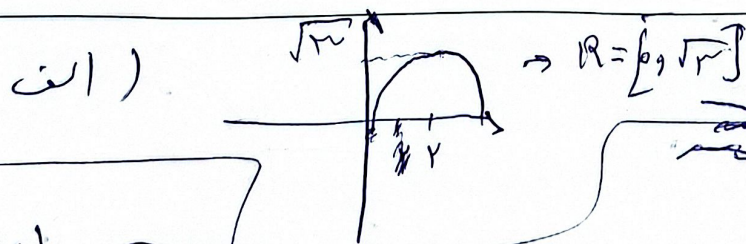


$$f'(x) = \frac{(x-1) \left(\frac{1}{x} x + 1 \right) - (x-1) \left(x - \frac{1}{x} \right)^x}{\left(\frac{1}{x} x + 1 \right)^x} = 0$$

$$\Rightarrow (x-1) \left(\frac{1}{x} \right) \rightarrow x = \frac{1}{x}$$

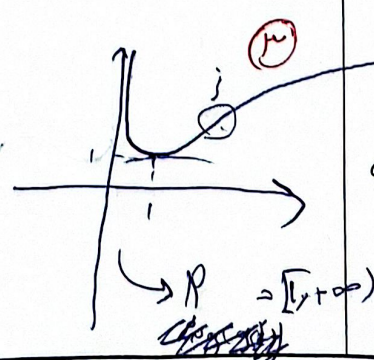
$$D = \mathbb{R}$$

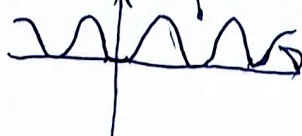
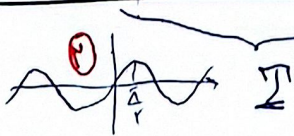
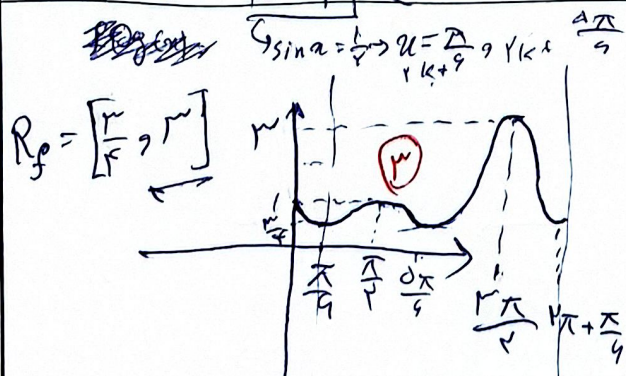
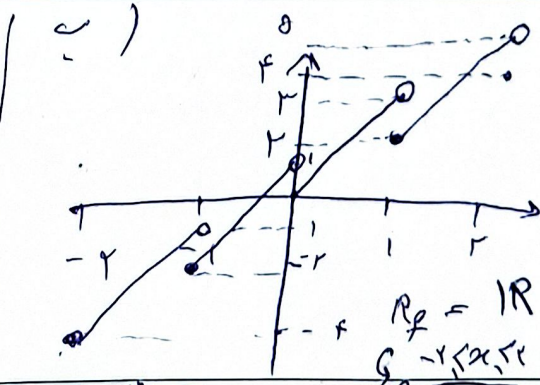
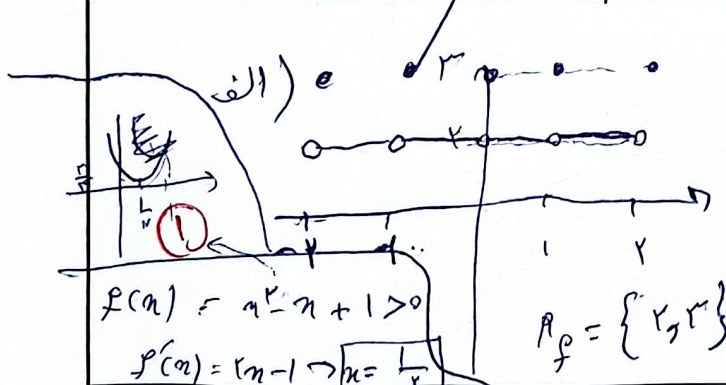
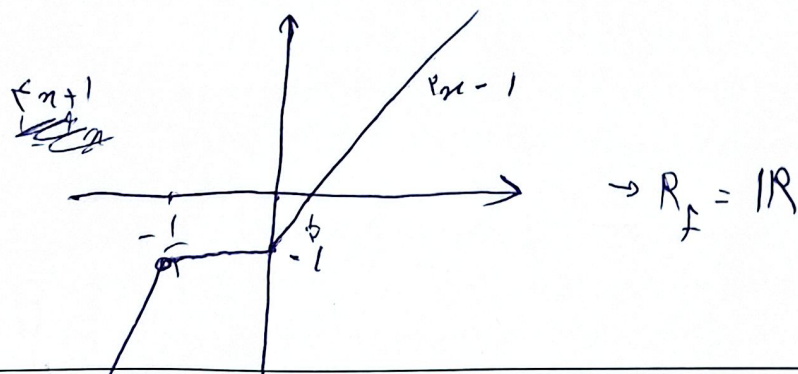
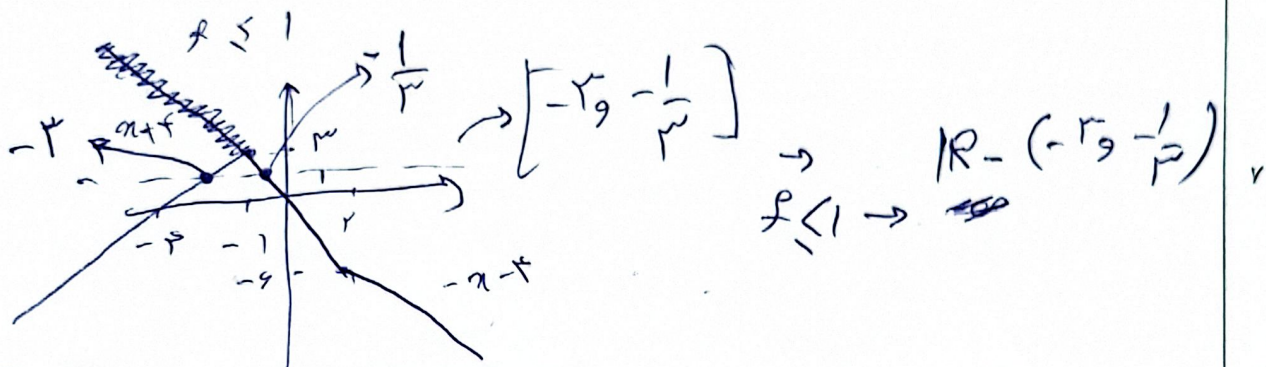
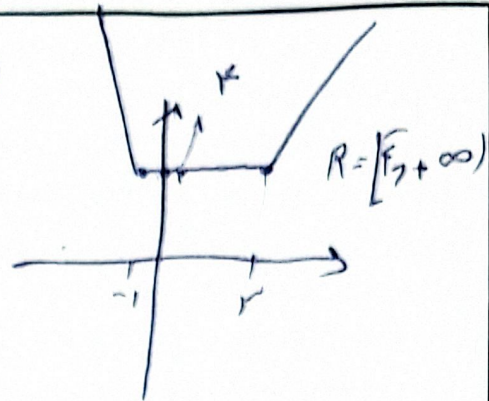
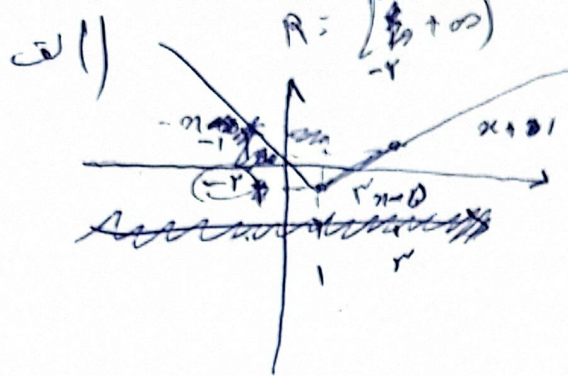
$$R_f = [0, 1)$$



$R_{\log(g)} = IR \rightarrow R_{\log(g)} = IR$

$\log_1(g(x))$





شماره شکل کشیدم
سوال آخر بیجا بود