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کتاب

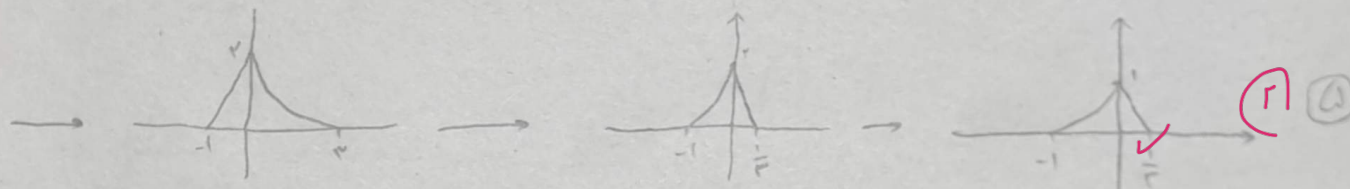
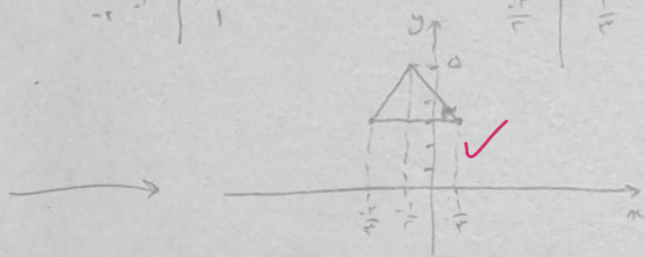
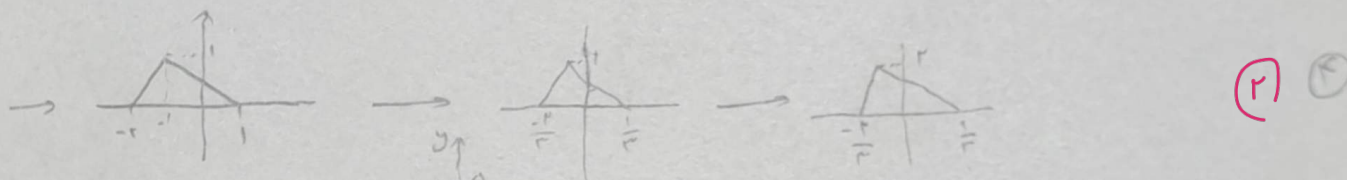
آریت

$$-2 \leq \frac{r(x+r)}{\omega} \leq 2 \rightarrow -10 \leq r(x+r) \leq 20 \rightarrow -12 \leq rx \leq 18 \rightarrow D_f = [-12, 18] \quad (1)$$

$$r(-r)-2 \leq x \leq r(r)-2 \rightarrow -1 \leq x \leq 5 \rightarrow D_f = [-1, 5] \quad (2)$$

$$\frac{r(-1)+1}{r} \leq r-\omega x \leq \frac{r(r)+1}{r} \rightarrow -1 \leq r-\omega x \leq 1 \rightarrow -r \leq -\omega x \leq r \quad (3)$$

$$\rightarrow -\frac{r}{\omega} \leq x \leq \frac{r}{\omega} \quad D_f = \left[-\frac{r}{\omega}, \frac{r}{\omega}\right] \text{ رقت!}$$



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

$$-n^2 + 2nr - r = 0 \Rightarrow -(n-r)(n-r) = 0 \Rightarrow \boxed{1, r}$$

$$D_f = (a+1, a] \quad D_g = [-r, b-1) \rightarrow (a+1, b-1) \subset (-r, a) \quad (r) \text{ ①}$$

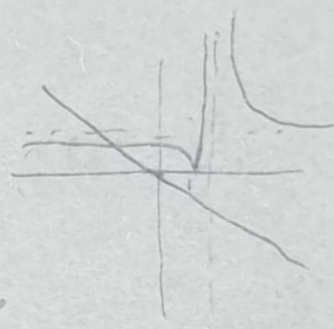
$$\rightarrow a < -r, b < a \quad a-b < -r-r < -g$$

$$D_f = \left[-\frac{1}{r}, \frac{\sqrt{a}}{r}\right] \quad R_f = [-1, r] \quad D_g = \left[-\frac{1}{r}, \frac{\sqrt{a}}{r}\right] \quad (r) \text{ ②}$$

$$(r(-1) - r) < a$$

$$(r(r) - r) < 1$$

$$R_g = [0, \sqrt{a}]$$

$$\left| \frac{(x-r)+1}{r(x-r)+1} \right| + 1 = \left| \frac{x-1}{rx-r} \right| + 1 \quad \rightarrow$$


if $(x < 0) \rightarrow y(x) < x \rightarrow \frac{x-1}{rx-r} + 1 + x < 0$

$\rightarrow \frac{rx - r + rx^2 + rx}{rx - r} < 0 \rightarrow \frac{rx^2 - r}{rx - r} < 0 \rightarrow r(x - \sqrt{r})(x + \sqrt{r}) < 0$

$x < -\sqrt{r}$