

19, 50

با طراح میرقصه و لایج شماره تکلیف ۱ گروه = یازدهم دختر - پنجشنبه ها

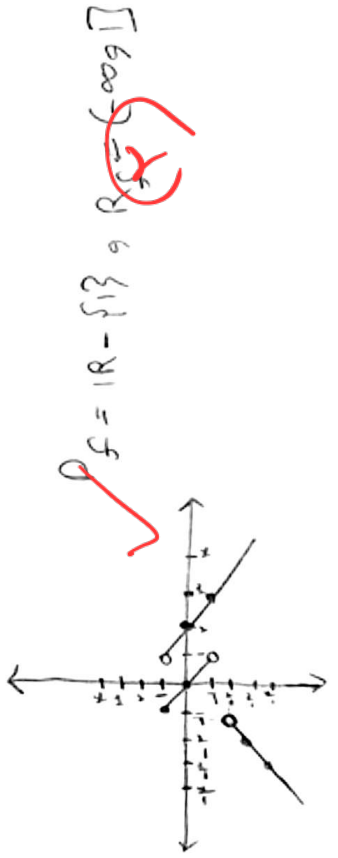
$$A \times B = \{(1,2)(1,3)(2,2)(2,3)(3,2)(3,3)\} \xrightarrow{\ominus} A \times B - B^2 = \{(1,2)(1,3)\}$$

الف) $m^2 = m+2 \rightarrow m^2 - m - 2 = 0$
 $(m-2)(m+1) = 0 \rightarrow m = 2$ یا $m = -1$

ب) $m^2 = m+2 \rightarrow (m-2)(m+1) = 0 \rightarrow m = 2$ یا $m = -1$
 $\rightarrow$ تابع نیست x تابع نیست $\Rightarrow (2,1) = (2,4)$
 $\rightarrow$ تابع نیست x تابع نیست $\Rightarrow (-1,3) = (-1,4)$

$x=1 \Rightarrow 0=a+b$
 $9=2 \Rightarrow \frac{2a+b}{a+b} = 1 \rightarrow a+b=1 \Rightarrow a \cdot b = -4$

$2k-3=4-3k \Rightarrow 5k=7 \rightarrow k=\frac{7}{5}$



الف) $2y_1^3 + 1 = -9x^2$
 $2y_1^3 + 1 = -9x^2$
 $2y_1^3 + 1 = -9x^2$
 $2y_1^3 + 1 = -9x^2$

ب) $9x^2 - 29x + 1 + 4y^2 - 12y + 9 = 0$
 $(x-1)^2 + (y-3)^2 = 0$
 $(x-1)^2 + (y-3)^2 = 0$

2) $x=0 \Rightarrow 0 \cdot \sin y = y \cdot 0 \rightarrow \text{لا يوجد}$

3) $y^2 = x \rightarrow (\sqrt{x} - \sqrt{x}) + y = y$

$(\sqrt{x} - \sqrt{x}) = 0 \rightarrow (\sqrt{x} - \sqrt{x}) (\sqrt{x} + \sqrt{x}) = 0$

$\sqrt{x} = \sqrt{x}$

$\sqrt{x} = -\sqrt{x}$

$|x| = |\frac{x}{x}|$

$|\frac{x}{x}| = |\frac{y}{x}|$

تابع حست

(149)

$\frac{x-1}{x-1} > 0 \rightarrow \frac{-\infty}{x-1} + \frac{1}{x-1} > 0$

$\frac{1-x}{x} > 0 \rightarrow \frac{-\infty}{x} + \frac{1}{x} > 0$

$D_f = (0, 1]$

4) $\sqrt{y-1} = \sqrt{x} - \sqrt{x} \rightarrow y-1 = x-1 \rightarrow y=x$
 $\sqrt{y-1} = \sqrt{x} - \sqrt{x}$
 $x \leq y$
 $D_f = [1, 10]$

5) $\sqrt{(x-1)(x-4)} > 0 \rightarrow \frac{-\infty}{x-1} + \frac{1}{x-4} > 0$
 $\sqrt{-9x+14} > 0 \rightarrow -9x+14 > 0$
 $x < \frac{14}{9} \rightarrow D_f = (-\infty, \frac{14}{9}]$

6) $\sqrt{\frac{(x-1)(x-4)}{(x-1)(x-1)}} > 0 \rightarrow \frac{-\infty}{x-1} + \frac{1}{x-1} > 0$
 $\sqrt{\frac{(x-1)(x-4)}{(x-1)(x-1)}} > 0 \rightarrow (-\infty, 1] \cup (4, +\infty)$

7) $\sqrt{x^2 - 9x + 14} > 0 \rightarrow \frac{-\infty}{x} + \frac{1}{x-4} > 0$
 $x^2 - 9x + 14 = 0 \rightarrow x = \frac{7}{2} = 1$
 $(x-7)(x-2) = 0 \rightarrow x = \frac{7}{2} = 1$

$\sqrt{x^2 - 9x + 14} > 0 \rightarrow \frac{-\infty}{x} + \frac{1}{x-4} > 0$
 $x^2 - 9x + 14 = 0 \rightarrow x = \frac{7}{2} = 1$
 $(x-7)(x-2) = 0 \rightarrow x = \frac{7}{2} = 1$

8) $\sqrt{x^2 - 9x + 14} > 0 \rightarrow \frac{-\infty}{x} + \frac{1}{x-4} > 0$
 $\sqrt{x^2 - 9x + 14} > 0 \rightarrow \frac{-\infty}{x} + \frac{1}{x-4} > 0$

$D_f = (-\infty, 1) \cup (10, +\infty)$