

والس: دهنان يا دهنان A

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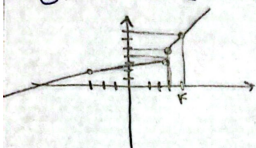
والس: دهنان يا دهنان $g = \{(-1, 1), (0, 1), (1, 0), (1, 1)\}$, $f(x) = \sqrt{1-x^2}$

$$f \circ g = \{(-1, 1), (1, 1), (0, -1)\}$$

$$(x, 1) - (x, 0) = 1$$

$$f(x) = \{(1, 0), (1, 1), (0, 1)\}$$

والس: دهنان يا دهنان $g(x) = \frac{1}{x}x + 1$ $f(x) = |x-1|$



$$f(x) = |x-1|$$

$$g(x) = \frac{1}{x}x + 1$$

$$f(x) = (-\infty, 1] \cup [2, +\infty)$$

والس: دهنان يا دهنان $y = \frac{-x^2}{p} + x + 1$

$$R_f = (-\infty, \frac{1}{p})$$

$$\frac{1}{p}x^2 + x + 1 =$$

$$\sqrt{\frac{1}{p} - \frac{1}{p}} \Rightarrow \sqrt{\frac{1}{p} - \frac{1}{p}} =$$

$$\frac{b}{a} = \frac{-1}{x} = -1$$

$$x=1 \rightarrow -\frac{1}{p}x + 1 + 1 = \frac{1}{p}$$

(1)

(2)

(3)

والس: دهنان يا دهنان $y = |x-1| + |x-1| + |x-1|$

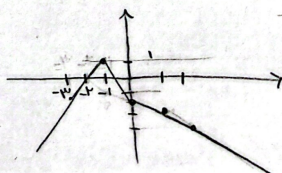
1	2	3
$1-x+1-x$	$x-1+1-x$	$x-1+x-1+1-x$
$x+1-x$	$x+1-x$	$x-1+x-1+1-x$
$\Rightarrow 1-x$	$1-x$	$1-x$

$$\min y = 1$$

$$x=1$$

والس: دهنان يا دهنان $y = |x-1| + |x+1|$

-1	0
$-x+1+x$	$-x-1-x$
$x+1$	$-x-1$
(1)	(-1)



$$R_f = (-\infty, 1]$$

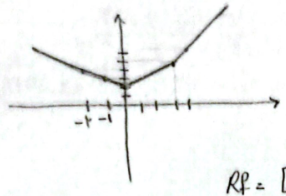
قسط 10 $y = \frac{x^2 + 10x + m}{x+1}$ حل المسألة

$x^2 + 10x + m = (x+1)(x+5)$
 حل

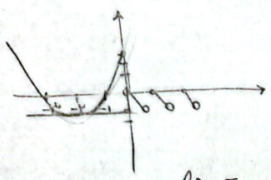
المسألة

$$f(x) = \begin{cases} x+1 & , x \geq 1 \\ x^2 - 9x + 1 & , 0 < x < 1 \\ |x|+1 & , x \leq 0 \end{cases}$$

 $x=1 \rightarrow 9 - 9 + 1 = 1$



$RP = [1, +\infty)$



المسألة، $f(x) = \begin{cases} x^2 + 7x + 10 & , x < 0 \\ [7x] - 10x & , x \geq 0 \end{cases}$

$(x+1)(x+10)$

$\frac{-b}{2a} = \frac{-7}{2} = -3.5$

$RP = [-1, +\infty)$

المسألة ab حل المسألة $(-\infty, a], [b, +\infty)$ حل المسألة $y = a+1 - \sqrt{10x+10}$

$x = \frac{10}{F} \rightarrow a+1 - \sqrt{10x+10} = 0 \rightarrow a+1 - \sqrt{10 \cdot \frac{10}{F} + 10} = 0$

$a = F$
 $\frac{10}{F} = \frac{10}{F} \rightarrow F = 10$

$10x - 10 \rightarrow 0$
 $x > \frac{10}{F} \rightarrow D_f$

المسألة $D_f = D_g$ ، $f(x) + g(x) = \sqrt{1+x} + \sqrt{1-x}$ ، $f(x) = \sqrt{1+x} + \sqrt{1-x}$

$f(x) = \sqrt{1+x} + \sqrt{1-x} \rightarrow D = [-1, 1]$

المسألة $y = \frac{f(x)}{g(x)} - \frac{g(x)}{f(x)}$

$x+1 > 0 \rightarrow x > -1$
 $1-x > 0 \rightarrow x < 1$
 $x=1 \rightarrow f(x) = \sqrt{2} \rightarrow f(x) + g(x) = \sqrt{2} + \sqrt{2} = 2\sqrt{2}$

$x=-1 \rightarrow f(x) = \sqrt{0} \rightarrow f(x) + g(x) = 0 + \sqrt{2} = \sqrt{2}$
 $y = \frac{f(x)}{g(x)} - \frac{g(x)}{f(x)} \xrightarrow{x=1} \frac{\sqrt{2}}{\sqrt{2}} - \frac{\sqrt{2}}{\sqrt{2}} = 0$
 $x=-1 \rightarrow \frac{\sqrt{2}}{\sqrt{2}} + \frac{\sqrt{2}}{\sqrt{2}} = 2$
 $RP = [0, \sqrt{2}]$