

خوانا تر نوشته شود

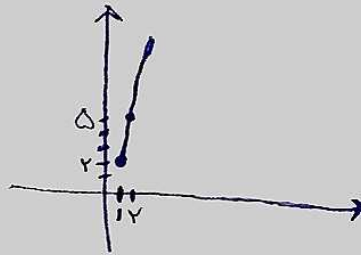
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الف) $f = \{(-1, 4), (2, m), (h, 3), (5, h), (2, 3)\}$

ب) $f = \{(-1, 4), (2, m), (h, 3), (5, h), (2, 3)\}$

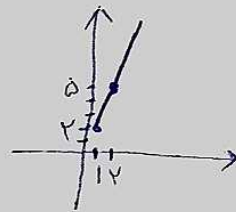
$h^2 - n^2 = 2$
 $h^2 - n^2 = 20$
 $a + c = b \rightarrow -1 + \frac{c}{a} \rightarrow 2 \rightarrow h^2 - 1 \rightarrow$
 $a^2 - 1 \leftarrow (-1, 4) \leftarrow (2, 3) \leftarrow (h, 3)$

$f(x) = \begin{cases} 3x-1; & x \geq 1 \\ x+a; & x < 1 \end{cases}$



$x \geq 1 \rightarrow 1+a \leq 2$
 $a \leq 1$

$f(x) = \begin{cases} 3x-1; & x \geq 1 \\ ax+a-1; & x \leq 0 \end{cases}$



$a \geq 0 \rightarrow a-1 < 2$
 $a < 3$

الف) $y = 2x^2 + 2 \rightarrow$

$y = 2x^2 + 2 \rightarrow x = 2 \rightarrow y = 10$

ب) $y = 2x^2 - 4x + 2$

$\frac{-b}{2a} \rightarrow \frac{2}{4} = \frac{1}{2}$
 $y_{min} = 2 \cdot \left(\frac{1}{2}\right)^2 - 4 \cdot \left(\frac{1}{2}\right) + 2 = -1$

الف) $y = \frac{3x+1}{x-2}$

$y = \frac{3x+1}{x-2} \rightarrow y(x-2) = 3x+1$
 $yx - 2y = 3x+1$
 $yx - 3x = 2y+1$
 $x(y-3) = 2y+1$
 $x = \frac{2y+1}{y-3}$

ب) $y = \frac{4+2x}{x+2}$

$y = \frac{4+2x}{x+2} \rightarrow y(x+2) = 4+2x$
 $yx + 2y = 4+2x$
 $yx - 2x = 4-2y$
 $x(y-2) = 4-2y$
 $x = \frac{4-2y}{y-2}$

