

این $(3, 2) \rightarrow (m, 2) \rightarrow m = 3$

با طه دار خوان
سوال (1)

$(3, n^2 - n) (n, 2) (3, 2) (-1, 2)$

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$n^2 - n = 2 \rightarrow (n-2)(n+1) = 0$

$n = 2$

$n = -1$

ب) $m = 2$ و $(a, 1) (-1, 1) \rightarrow a = -1 \rightarrow (a + 1, 2) (1, 2)$



$x + a \rightarrow 0 < \dots$

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

سوال 2

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$\begin{cases} 3x - 1 & x \geq 1 \\ ax + a - 1 & x \leq 0 \end{cases}$

$\rightarrow a > 0$

سوال 3

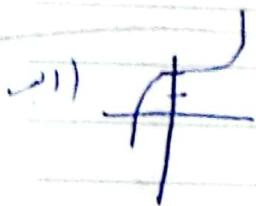
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$I \cap II \rightarrow 0 < a < 1$

$a - 1 < 2$ و $a < 1$



II



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

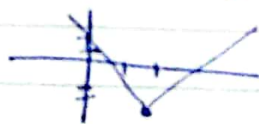
سوال 4

$x = 2 \rightarrow y'' = 4x$

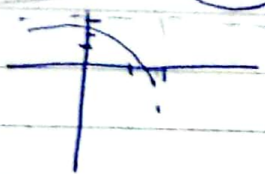
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(ب) به یک یک است



این



$x = 3 \rightarrow 1$

$x = \frac{y+1}{y-2}$

سوال 5

$x = \frac{y-2}{y+1}$

$x = \frac{y-2}{y+1}$

$y = \frac{2x+1}{x-2}$

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ب) $x = -1 \rightarrow 2 \frac{(2+x)}{x+2}$



Senobar



سوال ۴) $y = \sqrt{x-3} \rightarrow x = \sqrt{y+3} \rightarrow x^2 = y+3 \rightarrow y = x^2 - 3$ (ب) $y = x^2 + 1$

ب) $y = (x-1)(x-3)$

بک بک هست

$x \in [1, 3]$

$y = x^2 - x + 1 - 1$

$y = (x-1)^2 - 1$

$f(x) = x + \sqrt{x} \rightarrow x + \sqrt{x} + \frac{1}{x} - \frac{1}{x} \rightarrow x + \sqrt{x} + \frac{1}{x} - \frac{1}{x}$

$(\sqrt{x} + \frac{1}{x}) - \frac{1}{x} = y$

$\sqrt{y+1} = |x+1|$

$y+1 = x^2 \rightarrow y = x^2 - 1$

$y = x^2 + \sqrt{x} - 1$

$\rightarrow y + \frac{1}{x} = (\sqrt{x} + \frac{1}{x})^2$

$\sqrt{y + \frac{1}{x}} = \sqrt{x} + \frac{1}{x}$

$\sqrt{x} = \sqrt{y + \frac{1}{x}} - \frac{1}{x}$

$\rightarrow \sqrt{y} = \sqrt{x + \frac{1}{x}} - \frac{1}{x}$

$y = x + \frac{1}{x} + \frac{1}{x} - \frac{1}{x}$

$- \sqrt{x} - \frac{1}{x} = \sqrt{y + \frac{1}{x}} - \frac{1}{x}$

$x + \frac{1}{x} - \sqrt{x} = c$

$\Rightarrow u = 1$

$b = \frac{1}{x} \Rightarrow 1 + \frac{1}{x}$

$c = -\frac{1}{x}$

$y = x - \sqrt{x + \frac{1}{x}}$

$y = x \rightarrow \frac{x_1}{\sqrt{x_1^2 - 1}} = \frac{x_2}{\sqrt{x_2^2 - 1}} \rightarrow x_1 = x_2$

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$x_1 = x_2 \rightarrow x_2 = x_1$

$x_1^2 x_2^2 - 1 x_1^2 = x_1^2 x_2^2 - 1 x_2^2$

$x_1^2 = x_2^2 \rightarrow x_2 = \pm x_1$

$x_1 = x_2 \rightarrow x_2 = x_1$

$\rightarrow \frac{y}{\sqrt{y-1}} = x \rightarrow y = \sqrt{y-1} \cdot x$

$(x^2(y-1) = y^2)$

$\frac{y}{\sqrt{y-1}} = x \rightarrow y = \sqrt{y-1} \cdot x$

$f(x) = \frac{x}{1+x} \rightarrow y = \frac{x}{1+x} \rightarrow x < 0 \rightarrow \frac{x}{1-x} = y \rightarrow x = -\frac{y}{1+y}$

$x = -\frac{y}{1+y}$

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$g(x) = \sqrt{x} - 1 \rightarrow x = \sqrt{y+1} \rightarrow \sqrt{y} = x+1 \rightarrow y = (x+1)^2$

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$g^{-1}(-\frac{1}{2}) \rightarrow (-\frac{1}{2} + 1)^2 = \frac{1}{4}$

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$$-\frac{r}{r} + \frac{4}{r0} = \frac{rw}{\sqrt{0}}$$

$$f(x) = \sqrt{x-1} \rightarrow x = \sqrt{y-1} \rightarrow$$

Good

$$x^2 = y-1 \rightarrow x^2+1 = y$$

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$$g(x) = f(x) + \sqrt{f(x)} \rightarrow y = x^2+1 + \sqrt{x^2+1} \rightarrow$$

$$12 = x^2+1 + \sqrt{x^2+1}$$

$$x = 4 \quad 9 = 4$$