

دینا دهمی دهم دختر B

دکتر A, صحت

$$x^2 - ax + 1$$

$$1 < a < 3$$

①

$$y = a(x-1)(x-2) \rightarrow x^2 - 3x + 2$$

$$a = 1$$

$$b = 2$$

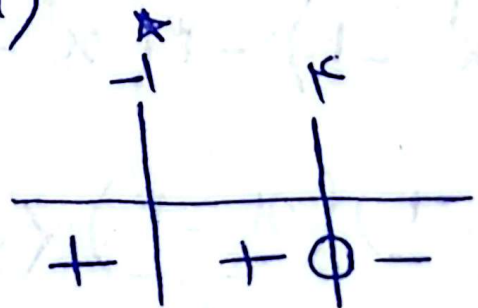
$$a + b = 3$$

②

$$y = ((k-2)x - m - 1)(x - \mu_n)^2$$

②

جواب  
 $x = -1$  مستحق



$$-1 - \mu_n = 0$$

$$\mu_n = -1 \rightarrow n = \frac{-1}{\mu}$$

$$x = 2 \rightarrow k - 2 < 0 \rightarrow k = 1$$

$$-x + m - 1 \rightarrow -2 + m - 1 = 0 \rightarrow m = 3$$

$$\frac{m}{n} + k = \frac{3}{-1} + 1 = \boxed{-2}$$

②

$$\Delta < 0 \rightarrow (a-1)^2 - (f)(a-1) = \quad (5)$$

$$a^2 - 2a + 1 - fa + f \quad a^2 - 4a + 5$$

$$a < 0 \rightarrow a - 1 < 0 \rightarrow a < 1 \quad (a-1)(a-5) < 0$$

ممنوع جواب = صحیح

$1 < a < 5$

$$\frac{m(m^2 + m)}{m-2} = \frac{m^2(m+1)}{m-2} \quad (6)$$

$\rightarrow (2, +\infty)$

$$y = -\frac{1}{f}x^2 + 2x + 4 \rightarrow y > \frac{v}{f} \quad (7)$$

$$-\frac{1}{f}x^2 + 2x + 4 > \frac{v}{f} \rightarrow -\frac{1}{f}x^2 + 2x - \frac{v}{f} > 0$$

$$x^2 - 2x - v < 0$$

$-1 < x < v$

$a = -1$

$b = v$

$b - a = 4$

$$x^2 - x + 3 - 3x^2 \quad (8)$$

$$x(x^2 - 1) - 3(x^2 - 2)$$

$$(x^2 - 1)(x - 3) < 0$$

نقطه مساوی چون

$0 < x$

$x = 2$  نقطه مساوی  $(1, 3)$

$$(x^2 - 1)(x - 3) = -3$$

$$I \frac{\mu x^r - f x}{x+1} < 0 \rightarrow x \left( \frac{\mu x - f}{x+1} \right) < 0$$

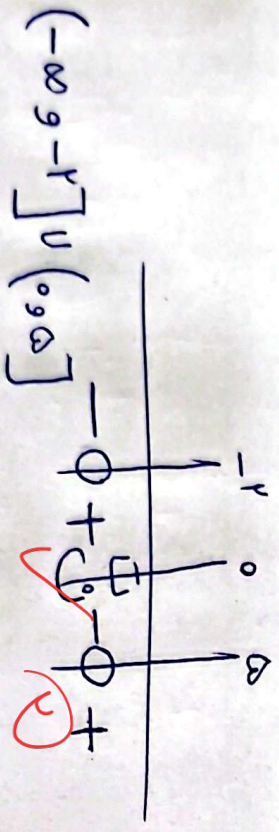
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$$III \frac{\mu x^r - f x + x + 1}{x+1} < 0$$

$$\frac{\mu x^r - f x + 1}{x+1} < 0$$

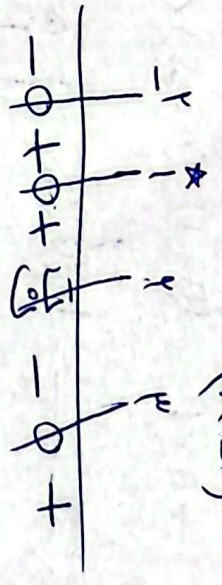
جاری اینه هارا البته منی حفظه من!

$$\frac{\mu x^r - 1}{x} < 0$$



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$$IV \frac{x-1}{(x-1)^r (x+1)^r (x-1)^r} > 0$$



$$[1, \infty)$$

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$$\frac{\mu x^r - 1}{x^r + f} < 1$$

$$\mu x^r - 1 < \mu x^r + 1$$

$$x^r - 1 < 0$$

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

$$(-1, 1)$$

$$(-1, 1) = \underline{1}$$

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$$\frac{\mu_n^r - \mu_n}{n+1} < 0 \rightarrow \frac{\mu(\mu_n - 2)}{n+1} < 0 \rightsquigarrow \frac{-1 \quad 0 \quad \frac{\mu}{2}}{-\frac{\mu}{2} + \quad - \quad +} \rightsquigarrow \overset{1}{\mu < -1} \cdot \overset{2}{\mu < \frac{\mu}{2}}$$

$$\frac{\mu_n^r - 2n}{n+1} > -1 \rightarrow \frac{\mu_n^r - 2n + n + 1}{n+1} > 0 \rightarrow \frac{\mu_n^r - \mu_{n+1}}{n+1} > 0 \rightarrow \mu_{n+1} > 0 \rightarrow \overset{2}{\mu > -1}$$

