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$$|m|(x+1)^2 - 2x + m = 0$$

$$|m|(x^2 + 2x + 1) - 2x + m = 0$$

$$|m|x^2 + x(-2 + 2|m|) + |m| + m = 0$$

$$\textcircled{c} 0 < \Delta \Rightarrow (-2 + 2|m|)^2 - 4|m|(|m| + m)$$

$$|m| \neq 0 \Rightarrow m \neq 0$$

$$0 < 4 - 8|m| + 4|m|^2 = 4|m|^2 - 4|m|/m \quad /:4$$

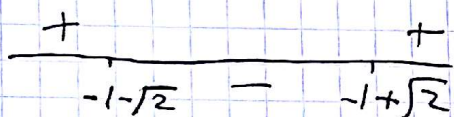
$$0 < 1 - 2|m| - |m|m$$

$$m > 0$$

$$0 < 1 - 2m - m^2$$

$$m^2 + 2m - 1 < 0$$

$$\frac{-2 \pm \sqrt{4+4}}{2} = \frac{-2 \pm 2\sqrt{2}}{2} = -1 \pm \sqrt{2}$$



$$-\sqrt{2}-1 < m < \sqrt{2}-1$$

$$0 < m < \sqrt{2}-1$$

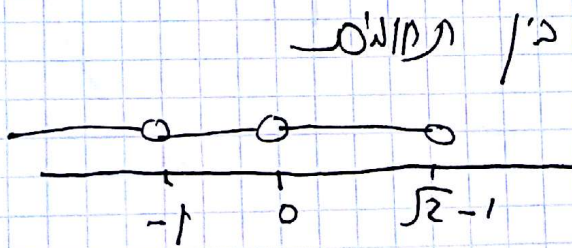
$$m < 0$$

$$0 < 1 + 2m + m^2$$

$$0 < (m+1)^2$$

$$m \neq -1$$

$$-1 \neq m < 0$$



$$-1, 0 \neq m < \sqrt{2}-1$$

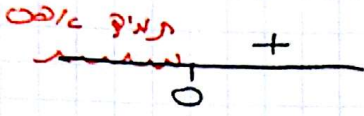
① $0 < \Delta \Rightarrow -1, 0 \neq m < \sqrt{2}-1$

$0 < \frac{c}{a} > 0$

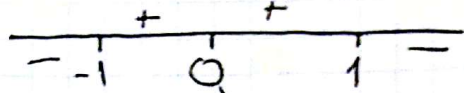
$\frac{-b}{a} > 0$

$0 < \frac{|m|+m}{|m|}$

$-\frac{2|m|-2}{|m|} > 0$

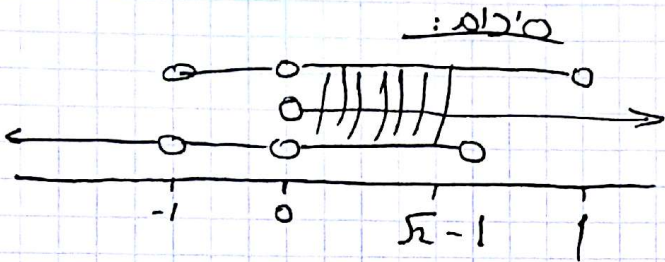


$m > 0$



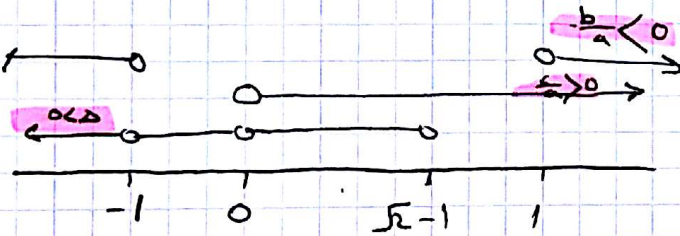
*koro gi. 25 j'ed on/!

$-1 < m < 1$
 $m \neq 0$



$0 < m < \sqrt{2}-1$: ab'.

②



~~2/1 er'it~~

SO
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$$y = (3m-1)x^2 - 2(m-3)x + m-3$$

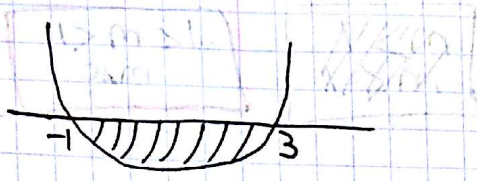
$$0 < \Delta = 4(m-3)^2 - 4(3m-1)(m-3)$$

$$0 < (m-3)[m-3-3m+1]$$

$$0 < (m-3)(-2m-2)$$

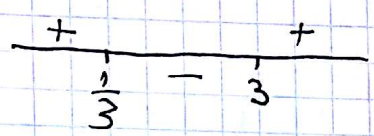
$$0 < -2(m-3)(m+1) \quad /: (-2)$$

$$0 > (m-3)(m+1)$$

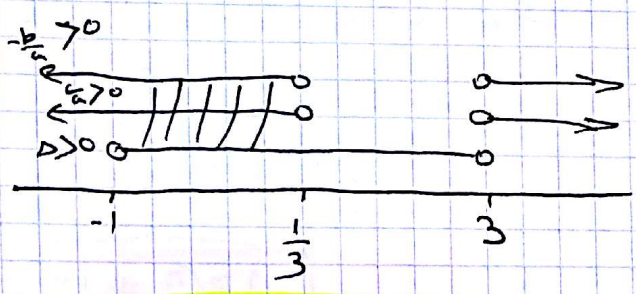


$$-1 < m < 3$$

$$0 < \frac{m-3}{3m-1} > 0$$



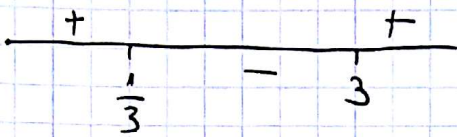
$$m < \frac{1}{3} \quad \vee \quad m > 3$$



$$-1 < m < \frac{1}{3}$$

$$\frac{b}{a} > 0 \quad \text{שני'ן 2}$$

$$\frac{2(m-3)}{3m-1} > 0$$

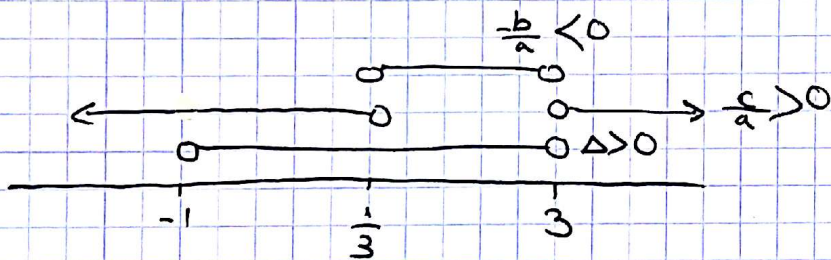


$$m < \frac{1}{3} \quad m > 3$$

$$\Delta > 0 \quad \text{שני'ן 2}$$

$$\frac{a}{b} > 0$$

$$\frac{b}{a} < 0$$



~~שני'ן 2~~