

0.36
3

$$(2m+5)x^4 + 6mx^2 - 4m - 1 = 0$$

3) ארבעה פתרונות, כל אחד מהם הוא x^2 חלוט.

$$(2m+5)t^2 + 6mt - 4m - 1 = 0 \quad \text{אם } x^2 = t$$

$$m = -\frac{1}{4} \leftarrow -4m - 1 = 0 \leftarrow \frac{c}{a} = 0 \quad (1)$$

$$-\frac{1}{2} < m < 0 \quad -6m > 0 \leftarrow -\frac{b}{a} > 0 \quad (2)$$

(3)

היחס $m = -\frac{1}{4}$ נלקח ונבדק האם הוא חלוט

$$0 < \Delta = 36m^2 - 4(2m+5)(-4m-1)$$

$$= 36m^2 + 32m^2 + 88m + 20$$

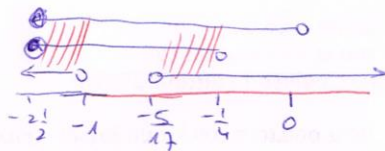
$$0 < 68m^2 + 88m + 20 \quad | :4$$

$$0 < 17m^2 + 22m + 5$$



$$m < -1 \quad \text{or} \quad m > -\frac{5}{17}$$

$$\begin{aligned} \Delta > 0 & \quad (1) \\ -\frac{1}{2} < m < -\frac{1}{4} & \quad (2) \\ -\frac{1}{2} < m < 0 & \quad (3) \end{aligned}$$



$$-\frac{1}{2} < m < -1 \quad \text{or} \quad -\frac{5}{17} < m < -\frac{1}{4}$$

0.6.2