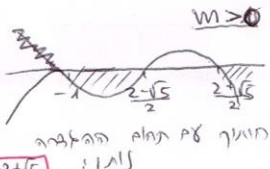


0.8

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

($m \neq 0$; 1 וקרא a) $\Delta < 0$ 2 ו- 3)

$$\begin{aligned} 0 > \Delta &= (m+1)^2 - 4|m+m^2|(m^2 - m - 2) \\ 0 > (m+1)^2 - 4|m(m+1)|(m-2)(m+1) \\ 0 > (m+1)^2 - 4m(m+1)^2(m-2) \\ 0 > (m+1)^2(1 - 4m(m-2)) \\ m &= -1 & -4m^2 + 8m + 1 \\ m &= \frac{2 \pm \sqrt{5}}{2} \end{aligned}$$

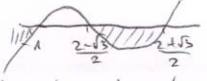


$m > \frac{2+\sqrt{5}}{2}$

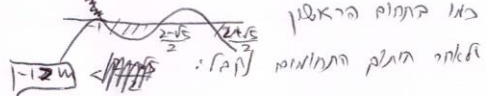
$$\begin{aligned} 0 > (m+1)^2 + 4m(m+1)(m-2)(m+1) & \quad -A < m \leq 0 \\ 0 > (m+1)^2 + 4m(m+1)^2(m-2) \end{aligned}$$

$$\begin{aligned} 0 > (m+1)^2(1 + 4m(m-2)) \\ m &= -1 & 4m^2 - 8m + 1 \\ m &= \frac{2 \pm \sqrt{3}}{2} \end{aligned}$$

אם $m < 0$ אז הפתרון הוא $m < -1$



$$\begin{aligned} 0 > \Delta &= (m+1)^2 - 4(m(m+1))(m-2)(m+1) & m \leq -1 \\ 0 > (m+1)^2(1 - 4m(m-2)) \end{aligned}$$



אם $m < -1$ אז הפתרון הוא $m < -1$