

1.26
2

$$(m-2)x^2 + mx - 3 = 0$$

$$x^2 + \frac{m}{m-2}x - \frac{3}{m-2} = 0$$

$m \neq 2$ (כדי שיהיו 2 פתרונות)
(אם $m=2$ יהא הפתרון

$$-\frac{b}{2a} > 2, \quad f(2) > 0, \quad \Delta \geq 0 \quad \text{אז}$$

$$\textcircled{1} \quad 0 \leq \frac{m^2}{(m-2)^2} \rightarrow \frac{12}{m-2} = \frac{m^2 + 12m + 24}{(m-2)^2}$$

$$0 \leq (m^2 - 12m + 24)$$



$$m \leq -6 - \sqrt{6} \quad \text{or} \quad m \geq -6 + \sqrt{6}$$

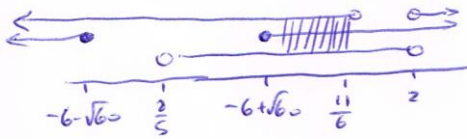
$$\textcircled{2} \quad 0 < f(2) = 4 + \frac{2m}{m-2} - \frac{3}{m-2} = \frac{4m-8+2m-3}{m-2} = \frac{6m-11}{m-2}$$

$$\begin{array}{c} + \quad + \\ \hline \frac{1}{6} \quad - \quad 2 \end{array}$$

$$\boxed{\begin{array}{c} m > 2 \\ m < \frac{11}{6} \end{array}} \quad \text{or}$$

$$\textcircled{3} \quad 2 < -\frac{b}{2a} = \frac{-m}{2(m-2)} \rightarrow 0 > \frac{4m-8+m}{2(m-2)} = \frac{5m-8}{2(m-2)} + \frac{1}{\frac{1}{2} - \frac{1}{2}}$$

$$\boxed{\frac{8}{5} < m < 2}$$



$$-6 + \sqrt{6} < m < \frac{11}{6}$$

היחלק הבחירה