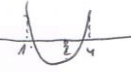


1.46  
3

$$x^2 - 2mx + m^2 - 1 = 0$$

$$1 < |x| < 4$$

$$0 < f(1) = 1 - 2m + m^2 - 1 = m(m-2) \rightarrow \boxed{m > 2 \text{ // } m < 0}$$

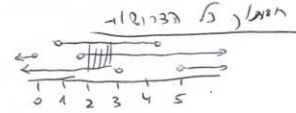


I 1700k

$$0 < f(4) = 16 - 8m + m^2 - 1 = m^2 - 8m + 15 \rightarrow \boxed{m < 3 \text{ // } m > 5}$$

$$1 < \frac{-b}{2a} < 4 \rightarrow 1 < \frac{2m}{2} < 4 \rightarrow \boxed{1 < m < 4}$$

$$0 < \Delta = 4m^2 - 4m^2 + 4 = 4 \rightarrow \boxed{m \in \mathbb{R}}$$



$$\boxed{2 < m < 3}$$

$$0 \leq 4 \rightarrow \boxed{m \in \mathbb{R}}$$

$$0 < f(-1) = 16 + 8m + m^2 - 1 = m^2 + 8m + 15 \rightarrow \boxed{m > -3 \text{ // } m < -5}$$

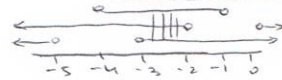


II 1700k

$$0 < f(-4) = 1 + 2m + m^2 - 1 = m(m+2) \rightarrow \boxed{m > 0 \text{ // } m < -2}$$

$$-4 < \frac{-b}{2a} < -1 \rightarrow -4 < \frac{2m}{2} < -1 \rightarrow \boxed{-4 < m < -1}$$

$$\boxed{-3 < m < -2}$$

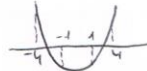


$$0 < f(4) \rightarrow \boxed{m < 3 \text{ // } m > 5}$$

$$0 > f(1) \rightarrow \boxed{0 < m < 2}$$

$$0 > f(-1) \rightarrow \boxed{-2 < m < 0}$$

$$0 < f(-4) \rightarrow \boxed{m > -3 \text{ // } m < -5}$$



III 1700k

$$-3 < m < -2 \text{ // } 2 < m < 3$$

$$\boxed{2 < |m| < 3} \text{ 13,70}$$

II 1700k // I 1700k 1700k