

1.85
1cl

$$(m-2)x^2 - (2m-1)x + m+3 = 0$$

$$\frac{1}{x_1+1} + \frac{1}{x_2+1} \leq 1 \quad \text{p. 1} \quad (1) \quad (2) \quad (3) \quad (4) \quad (5) \quad (6)$$

$$m \neq 2 \quad \leftarrow a \neq 0$$

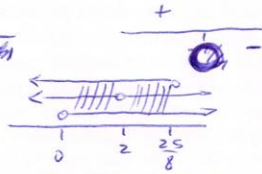
$$0 < \Delta = (2m-1)^2 - 4(m-2)(m+3)$$

$$0 < 4m^2 - 4m + 1 - 4m^2 - 4m + 24 \rightarrow 8m < 25 \quad m < \frac{25}{8}$$

$$1 \geq \frac{1}{x_1+1} + \frac{1}{x_2+1} = \frac{x_2+1+x_1+1}{(x_1+1)(x_2+1)} = \frac{(x_1+x_2)+2}{x_1x_2+(x_1+x_2)+1} = \frac{\frac{2m-1}{m-2} + 2}{\frac{m+3}{m-2} + \frac{2m-1}{m-2} + 1}$$

$$1 \geq \frac{2m-1+2m-4}{m-2} = \frac{4m-5}{4m-4}$$

$$0 \geq \frac{4m-5-4m+4}{4m-4} = \frac{-1}{4m-4}$$



$$m \geq 0$$

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$$0 < m < 2 \quad \text{or} \quad 2 < m < \frac{25}{8}$$