

4. Gaiko ariketak

1. Ebatzi inekuazio polinomiko hauek:

$$(i) \quad 4 - 5x \geq 6 - 3x. \quad Em.: x \in (\infty, -1]$$

$$(ii) \quad \frac{3}{4}(4 - 2x) > \frac{1}{5}(1 - x). \quad Em.: x \in (-\infty, 28/13)$$

$$(iii) \quad x^2 + 5x - 2 \leq 2x^2 + 4x - 3. \quad Em.: x \in (-\infty, \frac{-\sqrt{5}+1}{2}] \cup [\frac{\sqrt{5}+1}{2}, \infty)$$

$$(iv) \quad 5x^3 - 8x + 16 < x^4 + 12x. \quad Em.: x \in (-\infty, -2] \cup [1, 2] \cup [4, \infty)$$

2. Ebatzi inekuazio arrazional hauek:

$$(i) \quad \frac{2x^2 + x - 6}{x^2 + 2x} > \frac{x^2 - 4}{x}. \quad Em: \quad x \in (-\infty, -\sqrt{2} + 1) \cup (0, 1 + \sqrt{2})$$

$$(ii) \quad \frac{1}{x} + \frac{1}{1-x} \geq 0 \quad Em: \quad x \in (0, 1)$$

3. Ebatzi inekuazio hauek:

$$(i) \quad |x - 5| < x - 3. \qquad \text{Em: } x \in (4, \infty)$$

$$(ii) \quad \frac{|x(x+3)|}{|x|} \leq 4 \quad Em: \quad x \in [-7, 0) \cup (0, 1]$$

$$(iii) \quad |x^2 - 5x| > |x^2| - |5x| \qquad \qquad Em: \quad x \in (-\infty, 0) \cup (0, 5)$$

4. Ebatzi inekuazio hauetako erantzunak

$$(i) \quad |x^2 - 4x + 2| > 4. \quad Em: \quad x \in (-\infty, -\sqrt{6} + 2] \cup [\sqrt{6} + 2, \infty)$$

$$(ii) \quad \left| \frac{x^2+2}{x+2} \right| > 3. \quad Em: \quad x \in (-\infty, -2) \cup (-2, -1) \cup (4, \infty)$$

