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VERSION: ASSIGNMENT 3

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1. Describe each of the following sets as a list

a) {x ∈ N||x| < 6}

ANSWER = {1, 2, 3, 4, 5}

b) {x ∈ N | x < 30 ∧ (∀y ∈ N)(x ≠ 2y)}

ANSWER = {1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29}

c) {x ∈ R | 6x^4 + 43x^3 −78x^2 + 5x−12 = 0}

ANSWER = {-4, -3, 1/2, 1/3}

d) {x ∈ N | (∀y ∈ N)(y ≤ 10 ∧ x = 3y + 2)}

ANSWER = {5, 8, 11, 14, 17, 20, 23, 26, 29, 32}