Algebra I TEKS Tree – Readiness Standards

- **A.2(A)**
  - Determine
    - Domain — Linear/Mathematical
    - Range — Linear/Mathematical
  - Determine
    - Reasonable Domains (real-world)
      - Continuous
      - Discrete
    - Reasonable Ranges (real-world)
      - Continuous
      - Discrete
  - Represent
    - Domain — Using inequalities
    - Range — Using inequalities
- **A.2(C)** — Write — Linear equations
  - Table
  - Graph
  - Verbal Description
- **A.2(I)** — Write — Systems (2 linear equations)
  - Table
  - Graph
  - Verbal Description
- **A.3(B)** — Calculate — Rate of change
  - Tabularly
  - Graphically
  - Algebraically
- **A.3(C)**
  - Graph — Linear functions — Coordinate plane
  - Identify — Key features
    - x-intercept
    - y-intercept
    - Zeros
    - Slope
- **A.3(D)** — Graph — Linear inequalities
  - 2-variable
  - Coordinate plane
- **A.5(A)** — Solve — Equations (linear, 1-variable)
  - Distributive property
  - Variables on both sides
- **A.5(C)** — Solve — Systems (2 linear equations)
  - Mathematical
  - Real-world

- **A.6(A)**
  - Determine
    - Domain — Quadratic functions
    - Range — Quadratic functions
  - Represent
    - Domain — With inequalities
    - Range — With inequalities
- **A.7(A)**
  - Graph — Quadratic functions — Coordinate plane
  - Identify — Key attributes
    - x-intercept
    - y-intercept
    - Zeros
    - Maximum/minimum value
    - Vertex
    - Axis of symmetry
- **A.7(C)** — Determine — Effects on $f(x) = x^2$
  - $af(x)$
  - $f(bx)$
  - $f(x - c)$
  - $f(x) + d$
- **A.8(A)** — Solve — Quadratic equations
  - Factoring
  - Taking square roots
  - Completing the square
  - Quadratic formula
- **A.9(C)**
  - Write — Exponential functions — $f(x) = ab^x$
  - Describe
    - Mathematical probs.
    - Real-world problems
      - Growth
      - Decay
- **A.9(D)**
  - Graph — Exponential functions
    - Growth
    - Decay
  - Identify — Key features
    - y-intercept
    - Asymptotes
- **A.10(E)** — Factor — Trinomials
  - $ax^2 + bx + c$
  - Perfect square trinomials
- **A.11(B)**
  - Simplify — Expressions
    - Algebraic
    - Numeric
  - Use — Laws of exponents
    - Integer exponents
    - Rational exponents

© 2022 lead4ward.com v. 11.14.22