User guide for </>'s problem set solver

This project is one that aims to simplify the process of doing math exercises. Below is a guide that details how to operate the solver to achieve the desired results If a section does not have a use guide, it is likely not done

- 0. polar coordinates and vectors
  - 0.0. rectagular to polar
    - How to use:
      - type X or R value, hit `Enter`, type Y or U value, hit `Enter`
    - Example: $5U - 3R$
      - type 5, hit `Enter`, type -3, hit `Enter`
  - 0.1. polar to rectangular
    - How to use:
      - type radius value, hit `Enter`, type θ value, hit `Enter`
    - Example: $5\angle300\degree$
      - type 5, hit `Enter`, type 300, hit `Enter`
  - 0.2. vector addition
    - How to use:
      - type first radius value, hit `Enter`, type first θ value, hit `Enter`
      - repeat for second set of values
    - Example: $5\angle300\degree + 6\angle240\degree$
      - type 5, hit `Enter`, type 300, hit `Enter`
      - type 6, hit `Enter`, type 240, hit `Enter`
- 1. rectangular coordinates and points
  - 1.0. distance between two points
    - How to use:
      - type first point as ordered pair, hit `Enter`, type second point as ordered pair, hit `Enter`
    - Example: distance between (0, 1) and (6, 4)
      - type 0,1 , hit `Enter`, type 6,4 , hit `Enter`
  - 1.1. equation of a line through two points
  - 1.2. equation of a line through a point and perpendicular to another line
- 2. variations
  - 2.0. direct variation
  - 2.1. indirect variation
- 3. abstract equations
  - 3.0. find variable
  - 3.1. simplify fractional equation
- 4. roots
  - 4.0. roots in roots
  - 4.1. roots in denominators
- 5. multi-equational problems / substitution
  - 5.0. 2 simulatneous equations
  - 5.1. advanced substitution

- 6. volume concentration problems

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- 7. Combined gas law problems

    - 7.0. Regular
    - 7.1. Constant Pressure
    - 7.2. Constant Volume
    - 7.3. Constant Temperature

- 8. 30-60-90 triangles

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- 9. linear regression

    - 9.0. y = mx + b