

ARPL 636: **Design Process & Methods**

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Fall Semester 2023

[1] Exercise 1 — Problem Types
a study of logic and knowledge-based design

Hand-out: Monday 28 August
Due: Wednesday 30 August at class time

Modality: teams of two people
Grading: 0% of course grade

Part 1: Three Problem Types

Assignment: solve the following 3 problems:

1. What is the value of X in this equation?
 $5/8 X^2 - 5 = 5$
2. As exactly as possible, describe your present feelings with one word **or** one image.
3. In a square background, use 3 triangles to define at least 1 negative triangle.

Presentation Format: 8.5"x11" sheet(s)

Media: freehand writing/sketching (or printed image as necessary)

Part 2: Typical House

Assignment: forgetting all you learned in school, design a 4 bedrooms/2 car-garage typical suburban house for a typical suburban flat lot outside Washington DC. Don't spend more than 15 minute doing this job.

Presentation Format: produce plans and main elevation. Suggested format: 11"x17"

Media: you may use analog or digital media, whatever is more economical in time and effort

Part 3: Typological House

Assignment: using all you learned in school, design a 4 bedrooms/2 car-garage villa for a very large flat lot using (a) "L", (b) 4 squares, (c) central plan/central courtyard, or (d) linear typology (to be assigned by chance). Don't spend over 15 minutes on this job.

Presentation Format: produce plans and best axonometric. Suggested format: 11"x17"

Media: you may use analog or digital media, whatever is better to conceptually explicate your design

Part 4: Reflection

Spend 20 minutes reflecting/discussing with your partner on the commonalities and differences between the work you have done in this 3-part assignment. Take notes and come prepared to discuss them in class.