Geometry - Putting It All Together

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1 From the TJTST 1/2

- ABC is a triangle where AB = 3, BC = 4, AC = 5. D lies on AB and E lies on BC such that the area of ADEC is twice the area of DEB. Compute the smallest possible value of DE.
- Consider △ABC with area 100. Let D, E, F be points on BC, CA, AB respectively such that CD = 1, AE = 2, BF = 3. Let X, Y, Z be the intersections AD∩BE, BE∩CF, CF∩AD respectively. Find the area of △XYZ.
- Consider △ABC with side lengths AB = 7, BC = 9, AC = 12. Construct squares ACDE, ABFG, and BCHI entirely outside of triangle ABC. Let J, K, L be the midpoints of EH, DG, AC respectively. Find the area of triangle JKL.

2 Before We Get Started

Here are some things you hopefully remember from previous years competing in mathematical olympiads or through self-study and lectures:

- Properties of cyclic quads
- Similar triangles, areas, ratios, and how they're useful
- Special theorems on concurrency and collinearity: Menelaus and Ceva
- Circle properties (the Radical Axis Theorem)

Here are some tips to keep in mind when solving geometry problems:

- If you're stuck on a problem, DO NOT JUST STARE AT THE DIAGRAM. (1) label what you are given (2) make conjectures (3) try using various constructions (parallel lines, extensions, reflections, etc.)
- If possible, work both ways when attempting to prove a result.
- Always work with a large, neat diagram (as in legible and easy to label and spot)
- Bring compass and straightedge when tackling complex geometry problem. Often times, having multiple diagrams can also be helpful.

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