

Geometry - Putting It All Together

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1 From the TJTST 1/2

1. 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 .
2. Consider $\triangle ABC$ with area 100. Let D, E, F be points on BC, CA, AB respectively such that $\frac{CD}{DB} = 1$, $\frac{AE}{EC} = 2$, $\frac{BF}{FA} = 3$. Let X, Y, Z be the intersections $AD \cap BE$, $BE \cap CF$, $CF \cap AD$ respectively. Find the area of $\triangle XYZ$.
3. Consider $\triangle ABC$ with side lengths $AB = 7$, $BC = 9$, $AC = 12$. Construct squares $ACDE$, $ABFG$, and $BCIH$ 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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Richard Bailey



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