

Area of a triangle*

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- 1) Draw on a piece of graph paper a line segment with end points $(0,0)$ and $(6,8)$. Plot all point (x,y) such that the triangle with vertices $(0,0)$, $(6,8)$, (x,y) has an area of 20 square units.
- 2) What two basic geometric theorems are needed to solve this problem?
- 3) What are some ways to scaffold or extend this problem to deal with students with differing backgrounds?

*UIC CTTI: Nov 10, 2012; adapted from a problem of Marc Driscoll.