



Problem of the Week

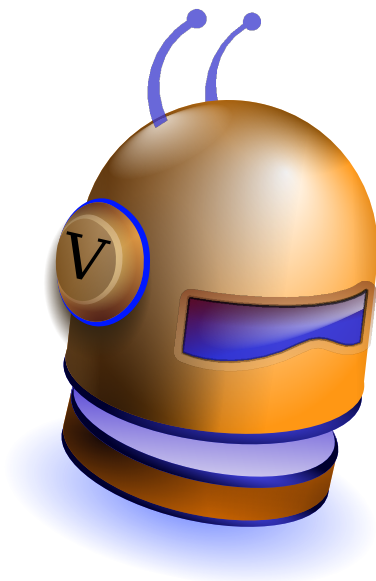
Problem C

Clean Up

Locations on the main floor of a house are described using a coordinate system and coordinate geometry.

Vroom is a robotic vacuum that moves around the main floor of a house. The robot travels from one point to the next point in one straight line. Vroom's base is located at $(0, 0)$. Vroom starts at its base and moves to the following points, in order, before returning to its base: $(1, 1)$, $(-1, 3)$, $(-3, 3)$, $(-3, 1)$, $(-2, -2)$.

What is the area of the figure that Vroom traced out?



STRANDS GEOMETRY AND SPATIAL SENSE, MEASUREMENT

