

Five Degrees of Rationality

Give examples of quadrilaterals that each have an area of exactly 8 square units and that have exactly zero, 1, 2, 3 or 4 rational side measure(s). Make sketches and label the side measures and any other significant measures. Show details of your calculations.

An extension of a G. Polya poser from the *Stanford Math Problem Book*.

Solutions

One possible set of solutions:

