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% !TEX encoding = UTF-8 Unicode
% !TEX program = xelatex
\documentclass{article}
    \usepackage{tikz}
\begin{document}
    \begin{tikzpicture}[scale = 1/2, every node/.style = {scale = 4}]
        \draw (0, 0) rectangle node \{\$5^2\} (-5, -5);
        draw (0, -5) rectangle node {$5^2$} (5, -10);
        \draw (0, 0) coordinate (orig);
        \draw [rotate = -45]
            (0, 0) -- ++({sqrt}(50)), 0) rectangle node{5^2} + (5, 5);
        \pgfmathsetmacro\gamma{atan2(5, sqrt(50))}
        \draw[rotate = -45 + \gamma]
            (0, 0) -- ++({sqrt}(75)), 0) rectangle node{$6^2$} +(6, 6);
        \pgfmathsetmacro\delta{atan2(6, sqrt(75))}
        \draw [rotate = -45 + \gamma + \delta]
            (0, 0) rectangle node {$111$} ({sqrt(110)}, {sqrt(110)});
    \end{tikzpicture}
\end{document}
```