Proof Without Words: \((a+b+c)^2\), \((a+b-c)^2\), \((a+b+c)^2-(a+b-c)^2\)

Wasim Akram Mandal, University of Kalyani

1 \((a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ac\)
\[ (a + b - c)^2 = a^2 + b^2 + c^2 + 2ab - 2bc - 2ac \]
(a + b + c)^2 - (a + b - c)^2 = 4c(a + b)

References


4 Special Thanks

The editors of the *Ohio Journal of School Mathematics* would like to extend a special thanks to Miranda Lee Fox and Richard Little for their revising suggestions and their support. We’re so glad to have both of you as members of our team!