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Arie Bialostocki and **Mark J. Nielsen*** (markn@uidaho.edu), Department of Mathematics, PO Box 441103, University of Idaho, Moscow, ID 83845-1103. *Minimum Sets Forcing Monochromatic Triangles.*

For a given triangle T , consider the problem of finding a finite set S in the plane such that every two-coloring of S results in a monochromatic set congruent to the vertices of T . We show that such a set must have at least seven points. Furthermore, we show by example that the minimum of seven is achieved. (Received September 19, 2007)