

1086-K1-2017 **Radmila Sazdanovic*** (radmilas@math.upenn.edu), University of Pennsylvania, Department of Mathematics, 209 south 33rd street, Philadelphia, PA 19104-6395. *Diagrammatic calculus for research and teaching.*

Examples of the role of mathematics in art are numerous: perspective, symmetry, fractals, etc. We will discuss the role of diagrams and drawings in modern mathematics: their importance in research, teaching, and aesthetical value. A diagrammatic approach has been very useful in developing courses for non-mathematics majors, enticing and maintaining student's interest in learning mathematics. (Received September 24, 2012)