ABSTRACTION

Muhammad Andika Ramadhan. 54416716.

Visualization of Parabolic Graph Equations with the Matlab Application. PI. Informatics Engineering. Industrial Technology. Gunadarma University. 2020.

Keywords: Lines, Geometry, Graph, Mathematics, Matlab, Parabola (xii + 56 Pages + Attachments)

One of the mathematics learning materials that must be mastered by grade VIII students is the Straight Line Equation (PGL). According to Tanjungsari et al (2012) students' understanding of the PGL concept is still lacking, seen from several problems, one of which is that students still find it difficult to use concepts including the inability to remember concepts, the inability to deduce useful information from a concept and the lack of understanding (schematic knowledge). which is shown incompletely in writing the formula. According to the results of Hardiyanto's (2010) study, the misunderstanding of the concept on the topic of straight line equations: (a) Type: the product of the gradient of two parallel lines is -1 and the gradient of the two lines perpendicular to the product is 1. (b) The tendency: error in determining the equation of a straight line that passes through two points, through a point and is parallel to a line or perpendicular to a line, and in determining the slope of a line with an equation. In an era that is completely digital like now, the use of technology will certainly make it easier for junior high school students to understand the material on the equation of lines and gradients. the same applies to the use of technology to make equation lines like the problems faced today. With this application, it is hoped that it can help junior high school students to visualize the Parabolic Graph for reference in working on the questions at hand so that they can solve questions easily and efficiently.

Bibliography (1996-2018)