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Thesis Title : An Experimental Study of Using Computer to Simulate
Turning and Still Pictorial Drawings for Teaching
Technical Drawing I
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Abstract

The purpose of the study was to compare the learning achievement, retention, and preference using computer to simulate turning and still pictorial drawings for teaching "Technical Drawing". Seventy samples were randomly selected from the first year students of the Automotive Mechanics Department, Patumthanee Technical College. They were randomly assigned to two equal groups by systematic sampling method. The first group studied with still pictorial drawings. Another group studied with turning pictorial drawings. The achievement tests were given after the students finished studying. The retention tests were given two weeks later. Then each experimental group studied another kind of drawings. The preference response forms were carried out to gather preferent data. A t-test statistics was used to compute the significant difference between two groups.

The results revealed that there was a significant difference between the two groups on learning achievement at the level of .01. The mean score of the group of students studied with turning pictorial drawings was higher than the mean score of another group. There was no significant difference between the two groups on retention at the level of .01. And there was a significant difference between the two groups on preference at the level of .01. The students preferred learning with turning pictorial drawings.