

Math 060 Fall 2012 SLO Assessment Report of SLO #3

Math 060 SLOs:

As a result of completing Mathematics 060, students will be able to:

1. Solve word problems and equations involving linear, quadratic and rational expressions using appropriate algebraic techniques
2. Evaluate and perform algebraic operations on polynomial, rational and radical expressions
3. Manipulate and analyze linear equations including finding slope, intercepts, graph and equation

Note: A portion of SLO #3 was assessed using two questions from the department final exam from fall 2012.

COURSE SLO ASSESSMENT REPORT, SCC

Department: Mathematics Course: 060

Year: 2012 – 2013 Academic Year Semester: Fall 2012 Semester

1) Outcome to be assessed	2) Means of assessment and criteria of success	3) Summary of data collected	4) Analysis of data	5) Plan of action/what to do next
<p>3. Students will be able to manipulate and analyze linear equations including finding slope, intercepts, graph and equation.</p>	<p>Two questions from the departmental final exam were scored. One question asked students to calculate the slope of a line (#7 on Forms A and B on Part 1) and the other question asked students to find the y-intercept of a line (#8 on Forms A and B on Part 1). Students were considered successful if they answered both questions correctly. We were hoping for an 80% success rate.</p>	<p>Of 292 student exams from 11 sections of Math 060 taught during fall of 2012, the results are as follows:</p> <p>187 students (64%) answered both questions correctly</p> <p>87 students (30%) answered one of the questions correctly</p> <p>18 students (6%) answered neither question correctly</p>	<p>Approximately the same number of students missed the slope question as those who missed the y-intercept question, so it doesn't appear that one question was more difficult than the other. Possible reasons for students getting an incorrect response range from simple calculation errors to complete lack of understanding of the concepts being tested. Since the questions had multiple-choice answers, there is no way to know what type of errors were made by these students. Students who missed both questions probably do not have a good understanding of the concepts. Since the number missing both questions was small, however, it seems that overall students are grasping the concepts of slope and y-intercept.</p>	<p>Inform the department of the results.</p> <p>Include the results in information provided to Math 060 instructors in future semesters.</p> <p>Remind students of the importance of checking their calculations and reviewing the concepts thoroughly.</p>