Dawson	College:	Civil Tech	nology:	201-912	-DW 02

Octo	ber 1	6, 2	009	

Student ID:

Name:

Quiz 6

Question 1. (4 marks) Solve for y in the following system using Cramer's rule.

$$\begin{array}{rclrcrcr}
2x & - & 2y & + & 3z & = & 5 \\
2x & + & y & - & 2z & = & -1 \\
4x & - & y & - & 3z & = & 0
\end{array}$$

Question 2. (6 marks) A roof truss is in the shape of a right triangle. If there are 4.60m of lumber in the truss making the sides and the longest side is 2.2m long, what are the lengths of the other two sides of the truss?