Name: _____   Date: _____

Chapter 4 Task Rubric: Roof Truss

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding • Finds the lengths of sides AP, AQ, and PQ.	Demonstrates limited understanding of trigonometry, making many major errors in the solutions.	Demonstrates some understanding of trigonometry, making minor errors in the solutions.	Demonstrates considerable understanding of trigonometry, correctly solving the problems.	Demonstrates thorough understanding of trigonometry, correctly and completely solving the problems.
Thinking • Prepares a plan to solve the problem. • Carries out the plan.	Needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow.	Needs some assistance to begin organizing a plan and needs some steps to follow.	Needs minimal assistance to organize and implement an effective strategy.	Needs no assistance to organize and implement an effective strategy.
Communication • Clear explanations and full justifications. • Correct use of mathematical language.	Maintains the correct units in some of the solution. Does not clearly explain or justify solutions.	Maintains the correct units throughout most of the solution. Explains and justifies solutions somewhat.	Maintains the correct units throughout the solution. Explains and justifies solutions fully.	Maintains the correct units throughout the solution. Explains, justifies, and shows insight into the complexities of the solutions.
Application • Uses angle properties and properties of congruent triangles to determine how side lengths and angles of the triangles relate to one another.	Interprets the information ineffectively and has difficulty using angle properties and properties of congruent triangles to determine how side lengths and angles of the triangles relate to one another.	Interprets the information somewhat effectively and has some difficulty using angle properties and properties of congruent triangles to determine how side lengths and angles of the triangles relate to one another.	Interprets the information with considerable effectiveness and has little difficulty using angle properties and properties of congruent triangles to determine how side lengths and angles of the triangles relate to one another.	Interprets the information with a high degree of effectiveness and has no difficulty using angle properties and properties of congruent triangles to determine how side lengths and angles of the triangles relate to one another.