

Section 1.5 Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> • Uses given quantities to choose the trigonometric method. • Uses the cosine law to solve for the missing length. 	Demonstrates limited understanding of which method to use. Calculates using the cosine law incorrectly.	Demonstrates some understanding of which method to use. Calculates using the cosine law with some errors.	Demonstrates considerable understanding of which method to use. Calculates using the cosine law correctly.	Demonstrates thorough understanding of which method to use. Calculates using the cosine law correctly.
Thinking <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Clear explanations and full justifications. • Correct use of mathematical language. 	Does not clearly explain or justify solution. Maintains the correct units in some of the solution.	Explains and justifies solution somewhat. Maintains the correct units throughout most of the solution.	Explains and justifies solution fully. Maintains the correct units throughout the solution.	Explains, justifies and shows insight into the complexities of the solution. Maintains the correct units throughout the solution.
Application <ul style="list-style-type: none"> • Finds the total length of race. • Gives reasonable assumptions made in the solution. 	Interprets the information ineffectively and has difficulty finding the total length of the race. No assumptions are presented.	Interprets the information somewhat effectively and has some difficulty finding the total length of the race. Unreasonable assumptions are presented.	Interprets the information with considerable effectiveness and has little difficulty finding the total length of the race. Reasonable assumptions are presented.	Interprets the information with a high degree of effectiveness and has no difficulty finding the total length of the race. Well thought out and reasonable assumptions are presented.