

Chapter 4 Practice Test Achievement Check Rubric

Categories	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding <ul style="list-style-type: none"> Draws a diagram to represent the problem. Chooses the appropriate trigonometric tool to determine the distance over which the tanker is visible on the radar screen. 	Demonstrates limited understanding of trigonometry. Needs assistance to visualize the problem. Finds the distance with many errors.	Demonstrates some understanding of trigonometry. Needs little assistance to visualize the problem. Finds the distance with some errors.	Demonstrates considerable understanding of trigonometry. Able to visualize the problem without assistance. Correctly finds the distance.	Demonstrates thorough understanding of trigonometry. Accurately visualizes the problem. Correctly and completely finds the distance.
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. 	Maintains the correct units and notation in some of the solution. Does not clearly explain or justify solution.	Maintains the correct units and notation throughout most of the solution. Explains and justifies solution somewhat.	Maintains the correct units and notation throughout the solution. Explains and justifies solution fully.	Maintains the correct units and notation throughout the solution. Explains, justifies, and shows insight into the complexities of the solution.
Application <ul style="list-style-type: none"> Determines the length of time over which the tanker is visible on the radar screen 	Interprets the information ineffectively.	Interprets the information somewhat effectively.	Interprets the information with considerable effectiveness.	Interprets the information with a high degree of effectiveness.