

3.5: Problems Giving Rise to QEs

A wide variety of problems can be formulated and solved using quadratic equations

Example #1: The sum of the squares of two consecutive odd integers is 290. Find the integers.

Example #2: The sum of a number and its reciprocal is 6.41. What is the number?

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Example #3: A rectangular solar panel is 2.5m larger than it is wide. If the total area is $21m^2$, then find the dimensions.

Example #4: A 5x7 photograph is to be matted using a mat of uniform width. Determine the width of the mat if the area of the mat is equal to the area of the photograph.