

# Inquiry & Connections Worksheet

*20x Questions w/Answer Key*



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# 2nd Semester Inquiry Review Answer Key

**Annelies Wilder-Smith**



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in figure 5 3 a

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web nov 12 2023 the addition of vectors is accomplished geometrically but not algebraically vector quantities should behave as independent of each other quantities before the addition from the vector addition we only conclude the resultant of a number of vectors propagated on a body from vector addition we obtain the resultant vector which is

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web oct 19 2023 vector addition in mathematics is the fundamental operation of vector algebra that is used to find the sum of two vectors vectors are mathematical quantities that have magnitude and direction a vector can be represented by a line

with an arrow pointing towards its direction and its length represents the magnitude of the vector

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web addition of three or more right angle vectors as our first example consider the following vector addition problem

example 1 a student drives his car 60 km north before making a right hand turn and driving 60 km to the east finally the student makes a left hand turn and travels another 20 km to the north

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web vector addition is one of the most common vector operations that a student of physics must master when adding vectors a head to tail method is employed the head of the second vector is placed at the tail of the first vector and the head of the third vector is placed at the tail of the second vector and so forth until all vectors have been

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web if the vectors are in the component form then the vector sum formula is  $a = a_1 \hat{i} + a_2 \hat{j} + a_3 \hat{k}$  if the two vectors are arranged by attaching the head of one vector to the tail of the other then their sum is the vector that joins the

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web answer according to the parallelogram law of vector addition if two vectors  $\vec{a}$  and  $\vec{b}$  represent two sides of a parallelogram in magnitude and direction then their sum  $\vec{a} + \vec{b}$  the diagonal of the parallelogram through their common point in magnitude and direction

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web nov 7 2023 the addition of physical quantities through mathematical operations is called vector addition vector addition involves only the vector quantities and not the scalar quantities vector quantities are added to determine the resultant direction and magnitude of

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b a 1 b 1 a 2 b 2 according to the parallelogram law if two vectors can be represented as two adjacent sides from a common vertex and then completed as if they are forming a parallelogram then the sum can be

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