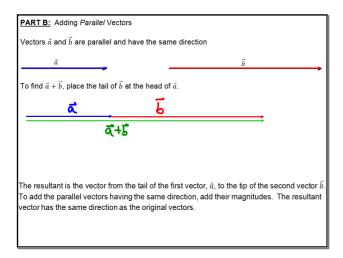


Parallelogram Law for Adding Two Vectors

To determine the sum of the two vectors \vec{a} and \vec{b} , complete the parallelogram formed by these two vectors when placed TALL to TALL (yes I know that is not what we learned initially, but stay with me). Their sum is the vector \vec{AD} , the diagonal of the constructed parallelogram.

Apr 27-9:06 AM

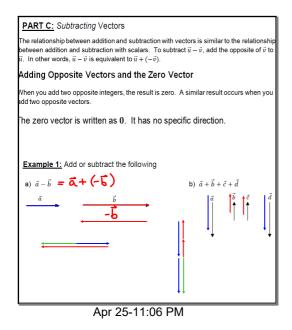


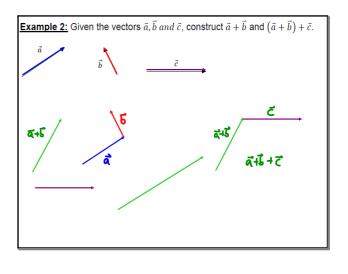
Vectors \vec{c} and \vec{d} are parallel but are in opposite directions. \vec{c} To find $\vec{c} + \vec{d}$, place the tail of \vec{d} at the head of \vec{c} .

The resultant is the vector from the tail of \vec{c} to the head of \vec{d} . The magnitude of the resultant is equal to the magnitude of \vec{c} minus the magnitude of \vec{d} . The resultant has the same direction as that of \vec{d} .

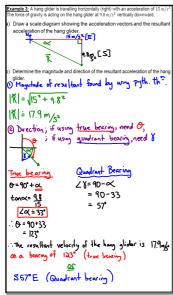
Apr 25-11:02 PM

Apr 25-11:05 PM

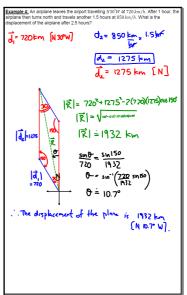




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Apr 25-11:23 PM



Apr 25-11:22 PM