Instructor example

1. Calculate the magnitude for each force:

†Note the conversion from grams(g) to kilograms(kg) so that I could present the results in Newtons(N) instead of millinewtons(mN)

1. Find the magnitudes of the component vectors for each force:

Set up the force equation as the sum of an x-component and a y-component:

Sub in values for known quantities

Find the resultant force:

|  |  |  |
| --- | --- | --- |
| Force | X | y |
|  | 2.45N | 0 |
|  | -1.17N | -3.22N |
|  | 1.28N | -3.22N |

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