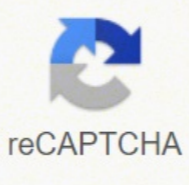




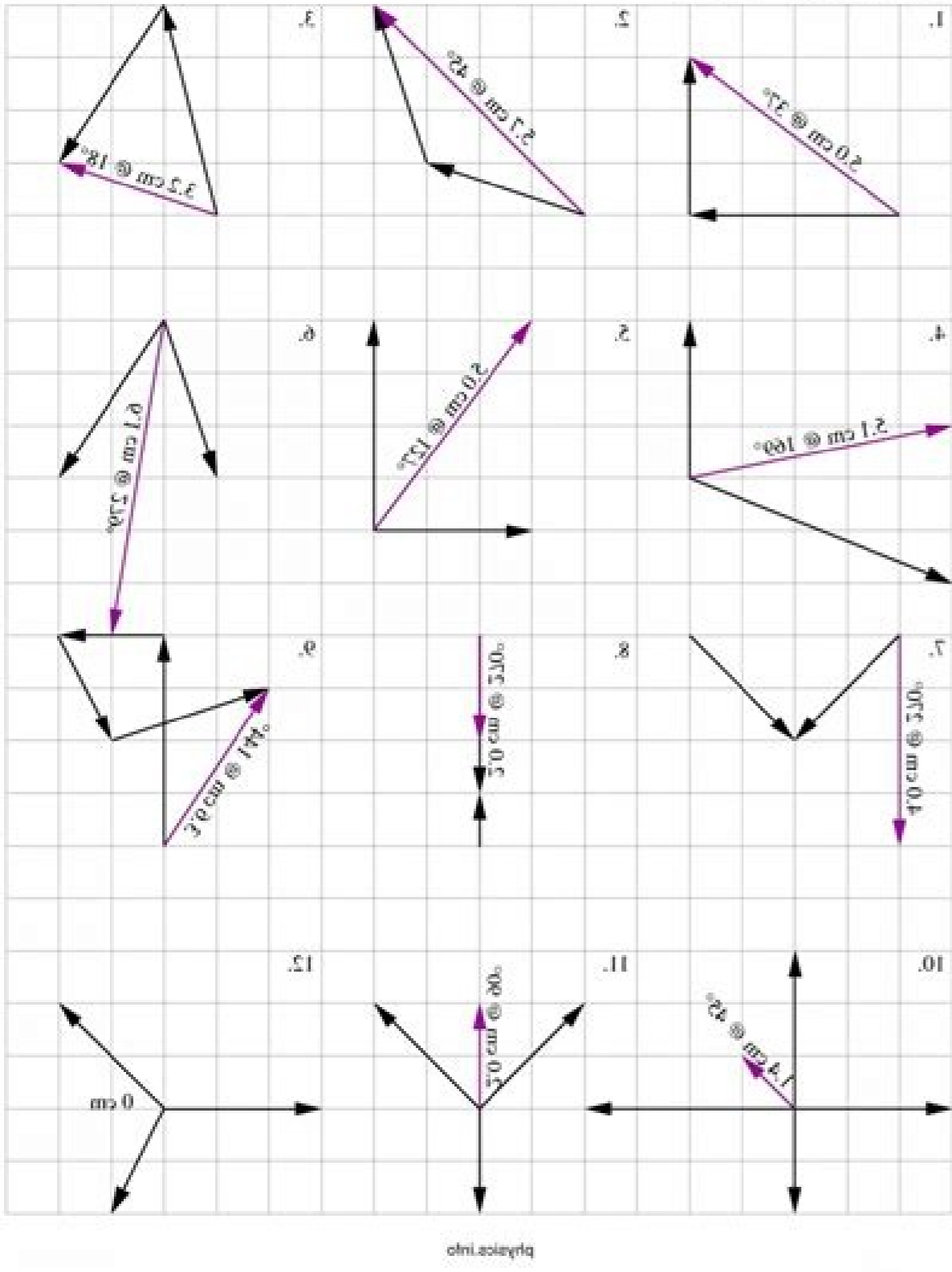
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**Open**

# Adding and subtracting column vectors worksheet

Calculate the magnitude (in centimeters) and direction (in standard form) of the resultant vector for each. Use the method of components. Use the 1 cm gridlines towards the east. A ruler and protractor are not needed for this exercise.



3rd Grade Math Worksheets

109	211	516	174
- 45	- 133	- 398	- 302
154	201	153	196
- 31	- 38	- 141	- 91
189	130	184	188
- 46	- 132	- 31	- 106
128	221	128	149
- 85	- 186	- 192	- 31

### Adding With ALL Regrouping (A)

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Calculate each sum.

$\begin{array}{r} 215 \\ + 788 \\ \hline \end{array}$	$\begin{array}{r} 713 \\ + 787 \\ \hline \end{array}$	$\begin{array}{r} 877 \\ + 195 \\ \hline \end{array}$	$\begin{array}{r} 988 \\ + 978 \\ \hline \end{array}$	$\begin{array}{r} 398 \\ + 803 \\ \hline \end{array}$
$\begin{array}{r} 649 \\ + 868 \\ \hline \end{array}$	$\begin{array}{r} 379 \\ + 991 \\ \hline \end{array}$	$\begin{array}{r} 637 \\ + 463 \\ \hline \end{array}$	$\begin{array}{r} 987 \\ + 783 \\ \hline \end{array}$	$\begin{array}{r} 909 \\ + 999 \\ \hline \end{array}$
$\begin{array}{r} 386 \\ + 985 \\ \hline \end{array}$	$\begin{array}{r} 858 \\ + 893 \\ \hline \end{array}$	$\begin{array}{r} 575 \\ + 995 \\ \hline \end{array}$	$\begin{array}{r} 523 \\ + 589 \\ \hline \end{array}$	$\begin{array}{r} 518 \\ + 897 \\ \hline \end{array}$
$\begin{array}{r} 976 \\ + 566 \\ \hline \end{array}$	$\begin{array}{r} 596 \\ + 845 \\ \hline \end{array}$	$\begin{array}{r} 678 \\ + 349 \\ \hline \end{array}$	$\begin{array}{r} 684 \\ + 828 \\ \hline \end{array}$	$\begin{array}{r} 719 \\ + 685 \\ \hline \end{array}$
$\begin{array}{r} 481 \\ + 619 \\ \hline \end{array}$	$\begin{array}{r} 476 \\ + 744 \\ \hline \end{array}$	$\begin{array}{r} 739 \\ + 792 \\ \hline \end{array}$	$\begin{array}{r} 287 \\ + 976 \\ \hline \end{array}$	$\begin{array}{r} 217 \\ + 797 \\ \hline \end{array}$

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### Basic Subtraction

$\begin{array}{r} 11 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 5 \\ \hline \end{array}$
$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$
$\begin{array}{r} 11 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ - 5 \\ \hline \end{array}$
$\begin{array}{r} 14 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ - 8 \\ \hline \end{array}$

Time: \_\_\_\_\_ minutes    Score: \_\_\_\_\_ out of 50



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