Vector Subtraction

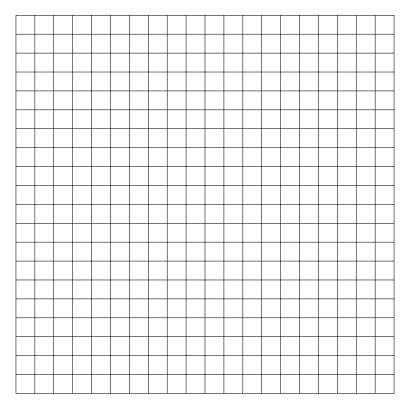
Practice Your Understanding

Name: Date:						
		from each other on? Write the fo		n is used to ca	lculate the res	sultant vector
2. There is a	vector \overrightarrow{A} on th	e left and a vect vector \overrightarrow{A} - \overrightarrow{B} :	or $\overrightarrow{\overrightarrow{B}}$ on the rig	ght below. In	the box below	draw vectors
A and B an	d the resultant	vector $A - B$:				
					`,	
3. A vector the vector \overrightarrow{G} - \overline{R}	btraction for th	$k\hat{j} + 0\hat{k}$ and a venese two vectors	ector $\overrightarrow{H} = 3.3$? What formu	$\hat{i} - 2.9\hat{j} + 0\hat{k}$. la would you	How would use? What is	you calculate the resultant
vector G - 1.	<i>1</i> :					

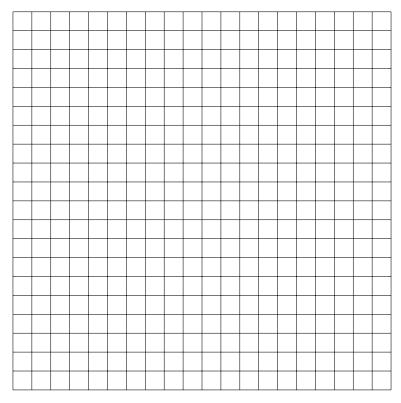
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4. From 3, on the graph below draw the vectors \overrightarrow{G} , \overrightarrow{H} , and the resultant vector, $\overrightarrow{G} - \overrightarrow{H}$. What do

you notice? (Draw the vectors at a starting point of (0,0).



5. From 4, redraw the graph this time, with only vector \overrightarrow{G} starting at (0,0). Then draw vector \overrightarrow{H} , with its head pointing at the head of vector \overrightarrow{G} . Lastly complete the vector subtraction by drawing vector $\overrightarrow{R} = \overrightarrow{G} \cdot \overrightarrow{H}$ from the tail of vector \overrightarrow{G} to the tail of vector \overrightarrow{H} . How does this graph compare to your earlier graph? Explain why these graphs are the same in the box below.



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