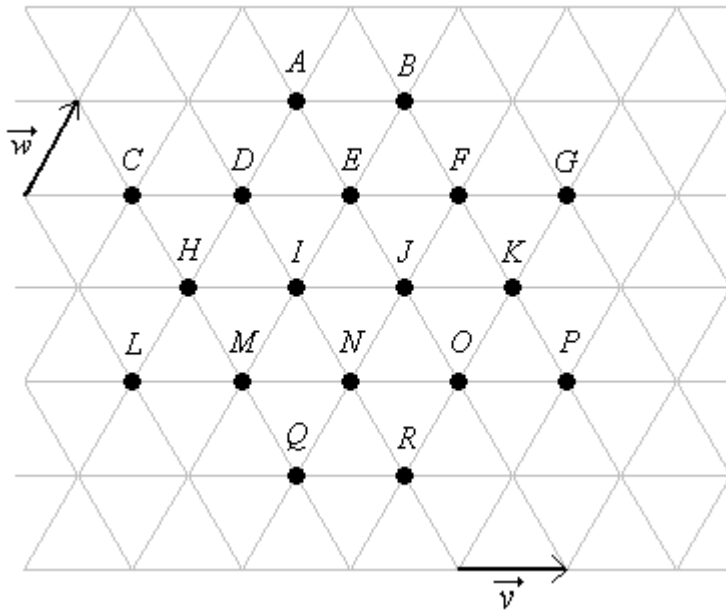


Vectors

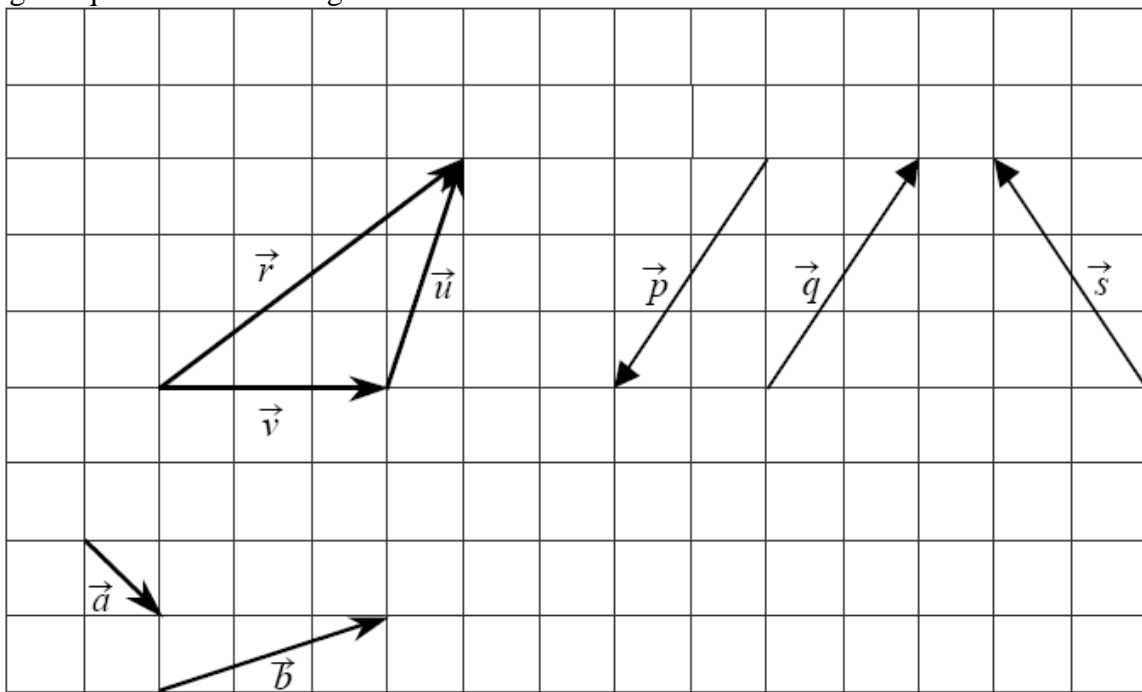
1.



Write in terms of \vec{v} and \vec{w} .

- a. \vec{LP}
- b. \vec{HF}
- c. \vec{PM}
- d. \vec{PB}

2. Each grid square is 1 unit along each side.



- a. Which vector is the same as $\vec{u} + \vec{v}$? (Select one) A. \vec{r} B. \vec{p} C. \vec{q} D. \vec{s}
 - b. Which vector is the same as $\vec{u} - \vec{v}$? (Select one) A. \vec{r} B. \vec{p} C. \vec{q} D. \vec{s}
 - c. Which two vectors shown above are opposites?
-
- d. Sketch and label the vector $\vec{w} = 2\vec{a} + \vec{b}$ on the grid.
 - e. Report the length of the vector \vec{s} to three decimal places: $\|\vec{s}\| =$
 - f. What angle does the vector \vec{s} make with the positive x -axis?
Report to the nearest 0.1 degree.