

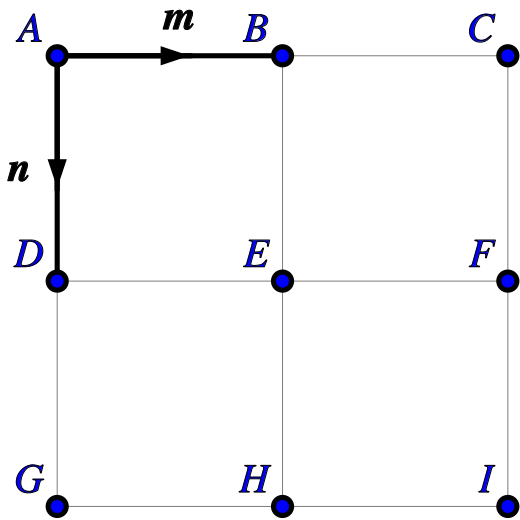
Vectors on a grid

Name:	Class:	Date:
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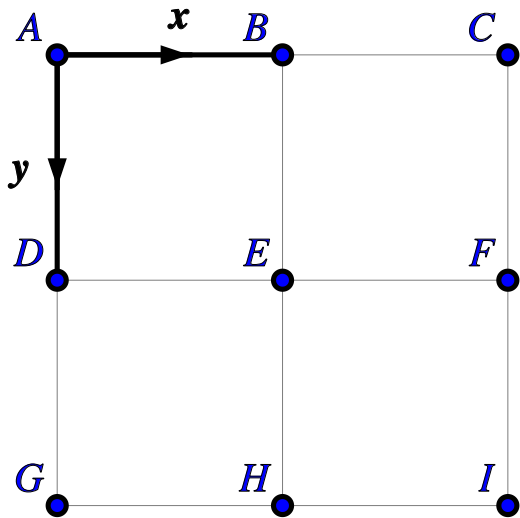
1) Using the diagram below, express the vector \vec{BG} in terms of \mathbf{m} and \mathbf{n} .

[1]



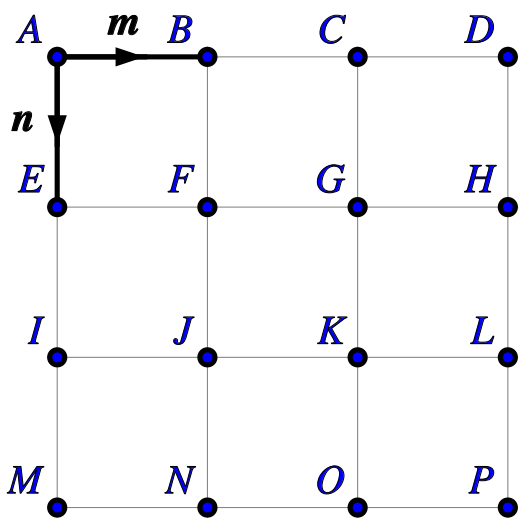
2) Find the vector formed when the vector $-y$ is added to point F.
Write the vector as capital letters e.g. \vec{AB} .

[1]



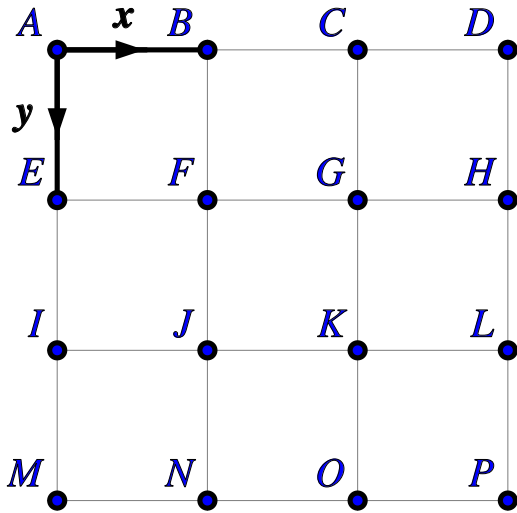
3) Using the diagram below, express the vector \vec{GH} in terms of \mathbf{m} and \mathbf{n} .

[1]

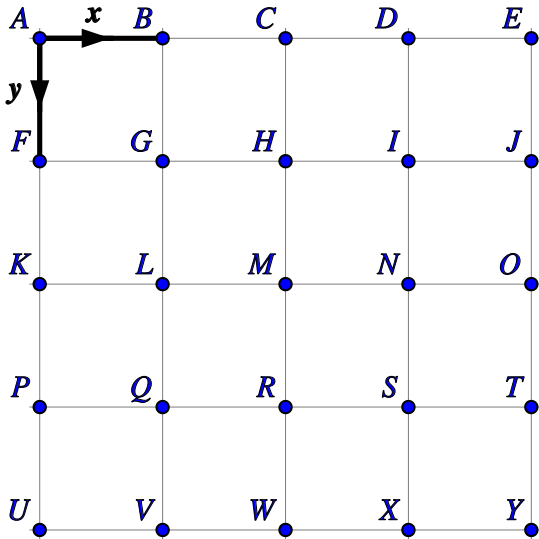


4) Find the vector formed when the vector $\mathbf{y-x}$ is added to point D.
Write the vector as capital letters e.g. \vec{AB} .

[1]



5) In the diagram below, $\vec{AB} = \mathbf{x}$ and $\vec{AF} = \mathbf{y}$.



Express the following vectors in terms of \mathbf{x} and \mathbf{y} .

a) \vec{VX}

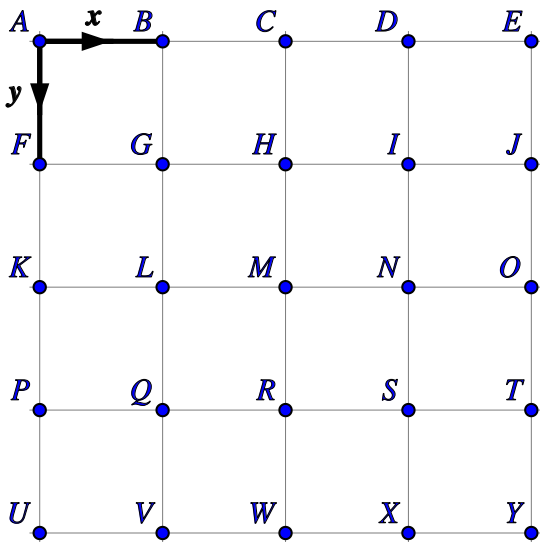
b) \vec{UP}

c) \vec{LP}

d) \vec{IU}

[1]

6) In the diagram below, $\vec{AB} = x$ and $\vec{AF} = y$.



Find the vectors formed when the following are added to point U, giving your answers as capital letters e.g. \vec{AB} .

- a) $2x$ b) $-4y$ c) $3x-3y$ d) $4x-2y$

[1]

Solutions for the assessment Vectors on a grid

1) $\vec{BG} = 2\mathbf{n} - \mathbf{m}$

2) Vector = \vec{FC}

3) $\vec{GH} = \mathbf{m}$

4) Vector = \vec{DG}

5) a) $\vec{VX} = 2\mathbf{x}$

6) a) \vec{UW}

b) $\vec{UP} = -\mathbf{y}$

b) \vec{UA}

c) $\vec{LP} = \mathbf{y} - \mathbf{x}$

c) \vec{UI}

d) $\vec{IU} = 3\mathbf{y} - 3\mathbf{x}$

d) \vec{UO}