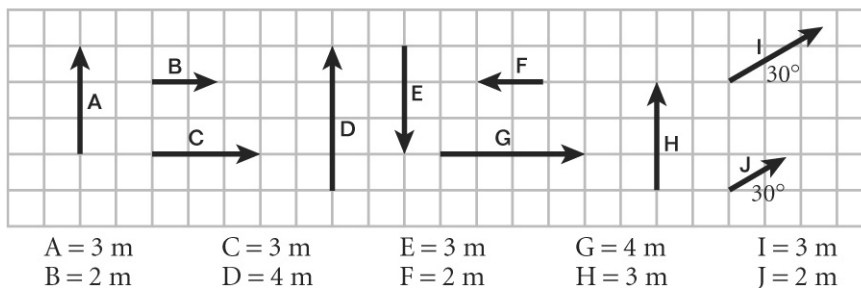


Two-Dimensional Motion and Vectors

Diagram Skills

Introduction to Vectors

Use the following vectors to answer the questions.

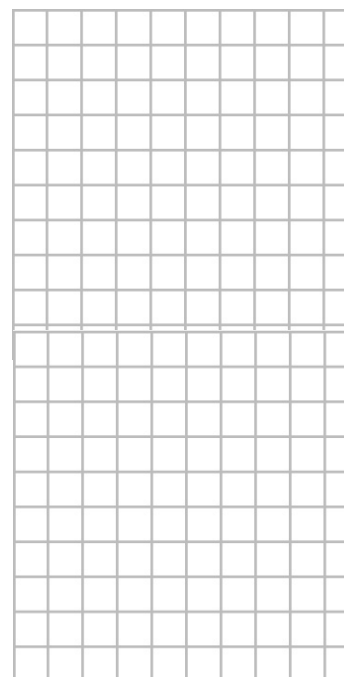


1. Which vectors have the same magnitude?

2. Which vectors have the same direction?

3. Which arrows, if any, represent the same vector?

4. In the space provided, construct and label a diagram that shows the vector sum $2\mathbf{A} + \mathbf{B}$. Construct and label a second diagram that shows $\mathbf{B} + 2\mathbf{A}$.



5. In the space provided, construct and label a diagram that shows the vector difference $\mathbf{A} - (\mathbf{B}/2)$. Construct and label a second diagram that shows $(\mathbf{B}/2) - \mathbf{A}$.