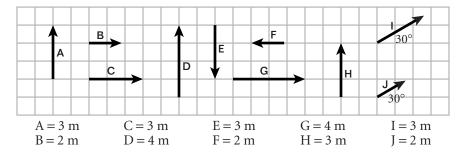
DATE \_\_\_\_\_ CLASS \_\_

## **HOLT PHYSICS Two-Dimensional Diagram Skills** Motion and Vectors

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 A - (B/2). Construct and label a second diagram that shows  $(\mathbf{B}/2) - \mathbf{A}$ .

