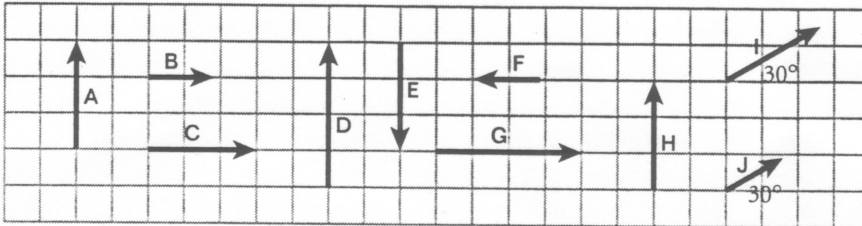


## Diagram Skills

## Introduction to Vectors

Use the following vectors to answer the questions.



$$A = 3 \text{ m}$$

$$C = 3 \text{ m}$$

$$E = 3 \text{ m}$$

$$G = 4 \text{ m}$$

$$I = 3 \text{ m}$$

$$B = 2 \text{ m}$$

$$D = 4 \text{ m}$$

$$F = 2 \text{ m}$$

$$H = 3 \text{ m}$$

$$J = 2 \text{ m}$$

1. Which vectors have the same magnitude?

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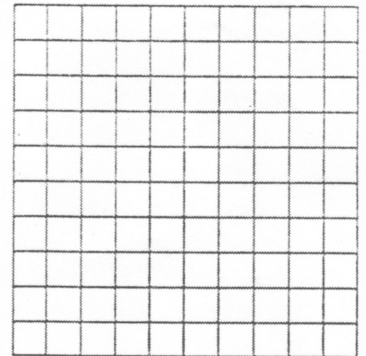
2. Which vectors have the same direction?

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

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



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  $(B/2) - A$ .

