

## “Is it ionic?”

*Based only on the information I give you in the following questions, determine whether or not each of the following is an ionic compound.*

- 1) Diamond is the hardest material known, and has a melting point of  $3550^{\circ}$  C.

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- 2) Potassium azide is a brittle crystal with a melting point of  $350^{\circ}$  C.

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- 3) Potassium chloride is a brittle, clear crystal with a melting point of  $770^{\circ}$  C.

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- 4) Carbon disulfide is a yellow liquid that does not conduct electricity.

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- 5) Anthracene is a flaky, clear, easily broken crystal with a boiling point of  $340^{\circ}$  C.

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- 6) Of the compounds listed above, which do you think may be “trick” questions? Explain, using your knowledge of the properties of ionic compounds.