**WORKSHEET V**

**trigonometric limits *(review)***

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I Evaluate each of the following limits or explain why the limit fails to exist.

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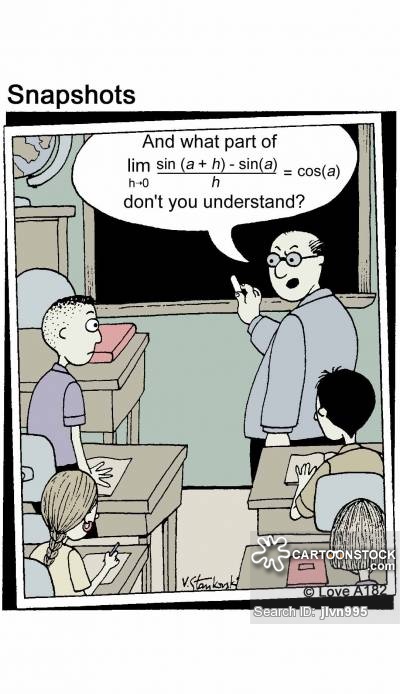
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**II** 1*.* Prove that

2. Prove, using (1) and a trigonometric identity, that

*I used to love mathematics for its own sake, and I still do, because it allows for no hypocrisy and no vagueness…*

- Stendhal, **The Life of Henri Brulard**



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