‘‘Boston’’ designates ‘Boston’
Read the excerpt from Quine’s *Mathematical Logic*, then do Cartwright’s problem sets and the following exercises:

**Exercise 1 (modified from JC Beall)**
Let $\alpha$ be any English expression. Following Smullyan, define the norm of $\alpha$ to be $\alpha$ followed by its quotation name.

i. What is the norm of ‘the expression’?

ii. What, if anything, does the norm of ‘the expression’ denote?

iii. What is the norm of ‘the norm of’?

iv. What, if anything, does the norm of ‘the norm of’ denote?

**Exercise 2**
Assume double quotation-marks are used for mentioning expressions.

‘You are sad,’ the Knight said in an anxious tone: ‘let me sing you a song to comfort you.’
‘Is it very long?’ Alice asked, for she had heard a good deal of poetry that day.
‘It's long,’ said the Knight, 'but very, very beautiful. Everybody that hears me sing it -- either it brings the tears into their eyes, or else -- '
‘Or else what?’ said Alice, for the Knight had made a sudden pause.
‘Or else it doesn't, you know. The name of the song is called "Haddock's Eyes."'
‘Oh, that's the name of the song, is it?’ Alice said, trying to feel interested.
‘No, you don't understand,' the Knight said, looking a little vexed. 'That's what the name is called. The name really is "The Aged Aged Man."'1
‘Then I ought to have said "That's what the song is called"?' Alice corrected herself.
‘No, you oughtn't: that's quite another thing! The song is called "Ways and Means": but that's only what it's called, you know!'
‘Well, what is the song, then?’ said Alice, who was by this time completely bewildered.
‘I was coming to that,' the Knight said. 'The song really is "A-sitting On A Gate": and the tune's my own invention.'
…She stood and listened very attentively, but no tears came into her eyes.

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’I'll tell thee everything I can; There's little to relate. I saw an aged aged man, A-sitting on a gate. "Who are you, aged man?’ I said. "and how is it you live?” And his answer trickled through my head Like water through a sieve…

i. Add, if necessary, quotation marks to A and B to restore truth:

A. *Haddocks’ Eyes* = *The Aged Aged Man*

B. *The Aged Aged Man* = *Ways and Means*

ii. What is the first word of the song?