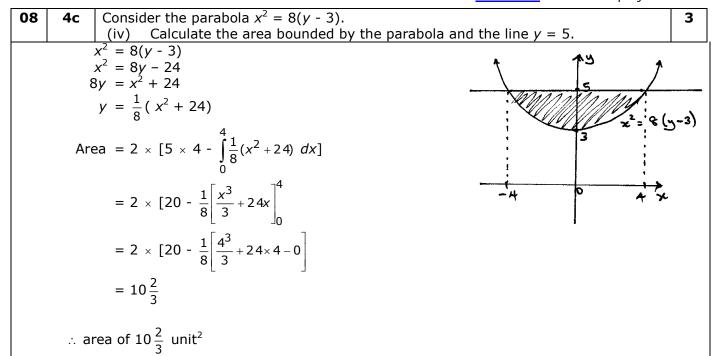
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Board of Studies: Notes from the Marking Centre

(iv) Most candidates were aware that the solution involved integration. The most concise and successful approach involved finding the area with respect to the x-axis and using the symmetry of the function. Common errors included the use of incorrect limits, the interpretation of the question as the volume of a solid of revolution, incorrect algebra and forgetting to use subtraction of areas when working with respect to the x-axis. Candidates choosing to evaluate their area with respect to the y-axis encountered a more difficult integral and made more algebraic errors when attempting to evaluate.

Source: http://www.boardofstudies.nsw.edu.au/hsc_exams/