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## Bonus Quiz 1

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

**Question 1.** §7.3 #20 (5 marks)

Use the shell method to set up and evaluate the integral that gives the volume of the solid generated by revolving the plane region about the x-axis

$$y = \sqrt{x+2}, y = x, y = 0.$$

**Question 2.** §7.4 #7 (5 marks) Find the arc length of the graph of the function

$$y = \frac{x^5}{10} + \frac{1}{6x^3}$$

over the interval [1,2].