QUIZ 10 - MATH 152   Friday, November 22

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Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [6 points] Compute the area under the curve

$$\begin{cases} x &=& t^3 \\ y &=& t^2 - 2t + 4 \end{cases}, \quad 0 \le t \le 2.$$

2. [6 points] Find the length of the path described by

$$\begin{cases} x & = & t^3 + 1 \\ y & = & t^2 - 3 \end{cases}, \quad 0 \le t \le 1.$$