

## Homework 16 (Chap. 6.3), 50.00/70.00 (71.43%)

December 3, 2019

**Problem 7 score: 10/10**

OK

**Problem 14 score: 10/10**

OK

**Problem 18 score: 0/10<sup>1</sup>**

numerical answer is wrong, see [https://www.wolframalpha.com/input/?i=integrate+2\\*pi\\*%285-x%29\\*%28sqrt%28x%29-x%2F2%29+from+0+to+4](https://www.wolframalpha.com/input/?i=integrate+2*pi*%285-x%29*%28sqrt%28x%29-x%2F2%29+from+0+to+4)

**Problem 30 score: 10/10**

OK

**Problem 38 score: 0/10<sup>2</sup>**

$$\frac{52}{3}x^3 \Big|_2^4 \neq 970 \left( = 970 + \frac{2}{3} \right)$$

**Problem 43 score: 10/10**

OK

**Problem 44 score: 10/10**

OK, but it would be more correct to write

$$\text{height} = y = \begin{cases} 2x, & 0 \leq x \leq 1 \\ 0, & \text{otherwise} \end{cases} \quad < ++ >$$

i++i

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<sup>1</sup>similar problems: 19,20

<sup>2</sup>similar problems: 39,40