Math 2315 - Calculus II

Quiz #6 - 2007.09.21

Name: _____

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1. Find the volume of the solid obtained by rotating the region bounded by the curves $y_1 = \frac{1}{2}x - 2$ and $y_2 = -(x-4)\left(x - \frac{15}{2}\right)$ about the line $x = 1$.

2. Find the volume of the solid obtained by rotating the region bounded by the curves $y_1 = \frac{1}{2}x - 2$ and $y_2 = -(x-4)\left(x - \frac{15}{2}\right)$ about the line $y = 5$.