Reading Quiz #15

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Read Section 6.1(pages 375-380), Section 6.2(pages 382-390) and answer the following problems.

1. Find the area of the region bounded by the line $y = x$ and the parabola $y = 5x - x^2$.

2. Find the volume of the solid obtained by rotating the region bounded by the lines
   $x = 2, \quad x = 5, \quad y = 0$ and the curve $y = \sqrt{x - 1}$ about the x-axis.