

AP Calculus AB – Unit 6

Dan the Tutor



Learn by Doing

2. Find the volume of the solid formed by the region bounded by the x-axis, the y-axis, $y = \cos(2x)$, and $x = \frac{\pi}{4}$ whose cross sections perpendicular to the x-axis are...

a) Squares

b) Semicircles

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3. Find the volume of the solid formed by the region bounded by the x-axis and $y = x^2 + 3x - 4$ whose cross sections perpendicular to the x-axis are...

a) Equilateral Triangles

b) Rectangles whose height is x

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4. Find the volume of the solid formed by the region bounded by $x = 4y$, $x = -y + 4$, and the x -axis whose cross sections perpendicular to the **y -axis** are...

a) Squares

b) Equilateral Triangles