

MAT235 Tutorial 15

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Tutorial this week will be devoted to surface area calculation practice. There will be a quiz (11) during the last 15 minutes.

1. Find the surface area of the solid bounded by the planes $y + z = 6$, $z = 0$ and the cylinder $x^2 + y^2 = 4$.
2. Let S be the unit sphere centred at the origin. Use a parametrization to find a formula for the surface area of S above the $z = \frac{1}{2}$ plane.