

**HOMEWORK 5**

Find  $V$ ,  $S$ ,  $M$  for each of the following bodies:

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1. A circular cylinder with radius  $r$  and height  $h$ .

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2. The body of revolution formed by rotating the shape considered in the class example 4 about the symmetry axis orthogonal to the one used in class.

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3. The body of revolution formed by rotating a sector of a circle of radius  $R$  and angle  $2\alpha$  about its symmetry axis.

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4. The regular dodecahedron with circumradius  $R$ .

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5. The regular icosahedron with circumradius  $R$ .