**Surds with Perimeter, Area, Volume**

Find the area and perimeter of these rectangles.

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(b)

 (c)

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(a) (b)

The perimeter of this rectangle is $8\sqrt{2}$. Find the area of the rectangle.



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(b) The volume of a cylinder is $40π+20π\sqrt{2}$. If the height of the cylinder is $2+\sqrt{2}$, find the exact radius of the cylinder.

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