

8 Volumes and average value — Part 2

— Answers

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Work through these after you have tried the questions yourself.

2.1 the 3-D solid swept out when a flat region is spun around an axis.

2.2 a cylinder.

2.3 it adds up many thin circular discs (each of area πr^2 times a small thickness).

2.4 $\frac{1}{6} \times 18 = 3$.

2.5 it adds up infinitely many tiny pieces to find a total.