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10. [Maximum mark: 15]

The following table shows the probability distribution of a discrete random variable A , in terms of an angle θ .

a	1	2
$P(A = a)$	$\cos \theta$	$2 \cos 2\theta$

- (a) Show that $\cos \theta = \frac{3}{4}$. [6]
- (b) Given that $\tan \theta > 0$, find $\tan \theta$. [3]
- (c) Let $y = \frac{1}{\cos x}$, for $0 < x < \frac{\pi}{2}$. The graph of y between $x = \theta$ and $x = \frac{\pi}{4}$ is rotated 360° about the x -axis. Find the volume of the solid formed. [6]

N14 Mathme Sp1 Eng Tz1 M

Lauren Gardner



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