

H. The area bounded by the graphs

$$y = \sqrt{2 - x^2} \quad \text{and} \quad x + (\sqrt{2} - 1)y = \sqrt{2}$$

equals

(a) $\frac{\sin \sqrt{2}}{\sqrt{2}}$; (b) $\frac{\pi}{4} - \frac{1}{\sqrt{2}}$; (c) $\frac{\pi}{2\sqrt{2}}$; (d) $\frac{\pi^2}{6}$.