

15.5 Surface Area

◎ 單選擇題

1. The **surface area** over the disk $x^2 + y^2 \leq 2$ of the circular paraboloid $z = x^2 + y^2$ is

- (A) $\frac{52}{27}\pi$; (B) $\frac{5}{6}\pi$; (C) $\frac{13}{3}\pi$; (D) $\frac{\pi}{6}(17\sqrt{17} - 1)$.

Ans: C [104 學年度]

2. The **surface area** of the part of the surface $z = x + y^2$ that lies above the region $R = \{(x, y) | 0 \leq x \leq y \leq 1\}$ is

- (A) $\frac{\sqrt{6}}{2}$; (B) $\frac{\sqrt{2}}{6}$; (C) $\frac{\sqrt{6}}{2} + \frac{\sqrt{2}}{6}$; (D) $\frac{\sqrt{6}}{2} - \frac{\sqrt{2}}{6}$.

Ans: D [105 學年度]