

$$Q \text{ 為圓 } \begin{cases} x^2 + (y-1)^2 + (z-5)^2 = 13 \\ x + 2y + 2z = 3 \end{cases}$$

$$\text{得 } x^2 + x + y^2 + 1 + z^2 - 8z + 25 = 16$$

$$\Rightarrow \left(x + \frac{1}{2}\right)^2 + y^2 + (z-4)^2 = \frac{25}{4}$$

$$\Rightarrow \text{得半徑} = \frac{5}{2}$$