

1.40  
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$$\begin{cases} x^3 + y^3 = 35 \\ xy = 6 \end{cases} \rightarrow x = \frac{6}{y}$$

$$35 = \left(\frac{6}{y}\right)^3 + y^3 = \frac{216}{y^3} + y^3$$

$$35 = \frac{216}{A} + A \rightarrow A^2 - 35A + 216 = 0$$

$$A = 27 \rightarrow \boxed{y = 3, x = 2}$$

$$A = 8 \rightarrow \boxed{y = 2, x = 3}$$

$$y^3 = A \quad (no)$$