

## RADICACIÓN

Problema 63:

Efectúa y simplifica:

$$\frac{\sqrt{b} \cdot b^{\frac{5}{7}}}{b^{\frac{2}{5}}}$$

Solución Problema 63:

$$\frac{\sqrt{b} \cdot b^{\frac{5}{7}}}{b^{\frac{2}{5}}} = \frac{b^{\frac{1}{2}} \cdot b^{\frac{5}{7}}}{b^{\frac{2}{5}}} = \frac{b^{\frac{1}{2} + \frac{5}{7}}}{b^{\frac{2}{5}}} = \frac{b^{\frac{7+10}{14}}}{b^{\frac{2}{5}}} = \frac{b^{\frac{17}{14}}}{b^{\frac{2}{5}}} = b^{\frac{17}{14}} \cdot b^{-\frac{2}{5}} = b^{\frac{17}{14} - \frac{2}{5}} = b^{\frac{85-28}{70}} = b^{\frac{57}{70}} = \sqrt[70]{b^{57}}$$