

문제 3.3

(그림은 교재 참조)

$$\begin{aligned}(1) \quad \sin A &= \sin (\angle B'A'C') \\ &= \frac{\overline{B'C'}}{\overline{A'B'}} \\ &= \frac{\frac{\overline{B'C'}}{\overline{CB'}}}{\frac{\overline{A'B'}}{\overline{OB'}}} \\ &= \frac{\sin (\angle B'OC')}{\sin (\angle B'OA')} \\ &= \frac{\sin (\angle BOC)}{\sin (\angle BOA)} \\ &= \frac{\sin a}{\sin c}\end{aligned}$$

$$(2) \quad \left. \begin{aligned} \sin B &= \frac{\sin d}{\sin c} \\ \sin C &= \frac{\sin d}{\sin b} \end{aligned} \right\}$$

$$\Rightarrow \sin B \cdot \sin c = \sin d = \sin C \cdot \sin b$$

$$\Rightarrow \frac{\sin b}{\sin B} = \frac{\sin c}{\sin C}$$