

12.15.15

Multiply then simplify or simplify then multiply.

$$3\sqrt{8} (-2\sqrt{80} + 7\sqrt{27})$$

$$-6\sqrt{640} + 21\sqrt{216}$$

$$-6\sqrt{64 \cdot 10} + 21\sqrt{36 \cdot 6}$$

$$-6 \cdot 8\sqrt{10} + 21 \cdot 6\sqrt{6}$$

$$\boxed{-48\sqrt{10} + 126\sqrt{6}}$$