

$$\sqrt{48a^7} = \sqrt{48} \cdot \sqrt{a^7}$$

$$\sqrt{16} \cdot \sqrt{3} \quad \frac{\sqrt{a^7}}{\sqrt{a^6} \sqrt{a}}$$

$$4\sqrt{3} \quad a^8 \sqrt{a}$$

$$4a^8 \sqrt{3a}$$