

**A2.A.15: Rationalizing Denominators 2: Rationalize denominators involving algebraic radical expressions**

1 Simplify:  $\sqrt[3]{\frac{2a^4}{3b^2}}$

2 Simplify:  $\frac{2a}{3x} \sqrt[3]{\frac{27x^4}{a^2}}$

3 Simplify:  $\frac{a}{b} \sqrt[5]{\frac{32a}{b^2}}$

4 Simplify:  $\sqrt[8]{\frac{a^4b^2}{c}}$

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### Answer Section

1 ANS:

$$\frac{a^3\sqrt{18ab}}{3b}$$

PTS: 2

REF: 099602al

2 ANS:

$$2^3\sqrt{ax}$$

PTS: 3

REF: 019811al

3 ANS:

$$\frac{2a^5\sqrt{ab^3}}{b^3}$$

PTS: 3

REF: 039807al

4 ANS:

$$\frac{\sqrt[8]{a^4b^2c^7}}{c}$$

PTS: 2

REF: 099911al