

M3 Radical Review



nzrcmqqq

1. Simplify: $\sqrt[3]{-8a^{15}b^6}$

- A. $-8a^5b^2$ B. $-2a^5b^2$ C. $2a^{15}b^6$ D. $4a^5b^2$

2. Simplify: $\frac{4^{\frac{3}{2}}}{16^{-\frac{1}{4}}}$

- A. -16 B. -2 C. 2 D. 16

3. Simplify: $2\sqrt{99} - \sqrt{44} + \sqrt{176}$

- A. $-3\sqrt{11}$ B. $8\sqrt{11}$ C. $12\sqrt{11}$ D. 55

4. Which expression does *not* result in $6\sqrt{14}$?

A. $2\sqrt{7} \cdot 3\sqrt{7}$

B. $18\sqrt{28} \div 3\sqrt{2}$

C. $3\sqrt{14} + 2\sqrt{14}$

D. $\sqrt{14} + 5\sqrt{14}$

5. Rationalize the denominator: $\frac{2 + \sqrt{3}}{4 - \sqrt{3}}$

A. $\frac{11 + 6\sqrt{3}}{7}$

B. $\frac{11 + 6\sqrt{3}}{13}$

C. $\frac{11 + 6\sqrt{3}}{19}$

D. $3 + 2\sqrt{3}$

6. Simplify: $(4\sqrt{10} - 3)(\sqrt{10} + 2)$

A. $5\sqrt{10} - 3$

B. $5\sqrt{10} + 34$

C. $-5\sqrt{10} + 8$

D. $-5\sqrt{10} + 34$

1.
Answer: B
Objective: N.RN.02
2.
Answer: D
Objective: N.RN.02
3.
Answer: B
Objective: N.RN.02
4.
Answer: C
Objective: N.RN.02
5.
Answer: B
Objective: N.RN.02
6.
Answer: B
Objective: N.RN.02