

AA PREP: OPERATIONS WITH RADICALS—WORKSHEET #2

Perform each operation. Simplify all radicals! Make sure to rationalize the denominator.

1) $-2\sqrt{90}$

2) $3\sqrt{10} \cdot -4\sqrt{50}$

3) $(5\sqrt{3})^2$

4) $\sqrt{\frac{16}{81}}$

5) $5\sqrt{12} - 3\sqrt{8} + \sqrt{75}$

6) $\frac{12}{\sqrt{10}}$

7) $-5\sqrt{12} \cdot 2\sqrt{24}$

8) $\sqrt{4^2 + 4^2 + 4^2}$

9) $\frac{\sqrt{60}}{\sqrt{45}}$

10) $2\sqrt{3}(5 + 2\sqrt{3} - 7\sqrt{6})$