

AA PREP: OPERATIONS WITH RADICALS—WORKSHEET #1

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

1) $\sqrt{288}$

2) $\sqrt{3} \cdot \sqrt{3}$

3) $3\sqrt{80}$

4) $(2\sqrt{5})^2$

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

6) $4\sqrt{20} \cdot 3\sqrt{10}$

7) $4\sqrt{6} + 9\sqrt{6}$

8) $2\sqrt{5}(8\sqrt{3} - \sqrt{5})$

9) $\sqrt{27} - 2\sqrt{18} + 5\sqrt{8}$

10) $\sqrt{\frac{48}{32}}$