

Simplifying Radicals and Solving Radical Equations Review

Directions: Simplify the following radicals.

1. $\sqrt{360}$

2. $\sqrt{2}(\sqrt{10} + 6)$

3. $\sqrt{\frac{5}{9}}$

4. $\frac{\sqrt{2}}{\sqrt{3}}$

Solve the equations:

5. $\sqrt{x} + 2 = 9$

6. $\sqrt{x + 1} = 4$

Find the missing side in the triangle. If the side does not simplify to a whole number, leave your answer as a simplified radical.

7. $a = 5, b = 12, c = ?$

8. $a = ?, b = 9, c = 15$