

Algebra I Radical Review

I. Simplify the following radicals.

1. $\sqrt{4}$

2

2. $\sqrt{16}$

4

3. $\sqrt{18}$

3 $\sqrt{2}$

4. $\sqrt{75}$

5 $\sqrt{3}$

5. $\sqrt{32}$

4 $\sqrt{2}$

6. $\sqrt{108}$

6 $\sqrt{3}$

7. $\sqrt{72}$

6 $\sqrt{2}$

8. $\sqrt{147}$

7 $\sqrt{3}$

9. $\sqrt{80}$

4 $\sqrt{5}$

10. $\sqrt{112}$

4 $\sqrt{7}$

11. $\sqrt{125}$

5 $\sqrt{5}$

12. $\sqrt{50}$

5 $\sqrt{2}$

Name _____

II. Solve for the variable in simplified radical form.

13. $x^2 = 16$

± 4

14. $x^2 = 100$

± 10

15. $50 = m^2$

$\pm 5\sqrt{2}$

16. $-20 = -\frac{2}{3}(y^2 + 6)$

$30 = y^2 + 6$

$y = \pm 2\sqrt{6}$

17. $96 = 2n^2$

~~48~~

$\pm 4\sqrt{3}$

18. $p^2 - 7 = 47$

$\pm 3\sqrt{6}$

Algebra I Radical Review

I. Simplify the following radicals.

1. $\sqrt{4}$

2. $\sqrt{16}$

3. $\sqrt{18}$

4. $\sqrt{75}$

Name _____

II. Solve for the variable in simplified radical form.

13. $x^2 = 16$

14. $x^2 = 100$

15. $50 = m^2$

5. $\sqrt{32}$

6. $\sqrt{108}$

7. $\sqrt{72}$

8. $\sqrt{147}$

16. $-20 = -\frac{2}{3}(y^2 + 6)$

17. $96 = 2n^2$

18. $p^2 - 7 = 47$

9. $\sqrt{80}$

10. $\sqrt{112}$

11. $\sqrt{125}$

12. $\sqrt{50}$