

Algebra 1 B

Name _____

Unit 9 Objectives 1 to 5 Review

Period _____ Date _____

Objective 1 – Estimate the square root. DO NOT USE A CALCULATOR.

1. $\sqrt{75} \approx$ _____

2. $\sqrt{133} \approx$ _____

3. $\sqrt{41} \approx$ _____

Objective 2 – Simplify each square root to simplest radical form.

4. $\sqrt{12} =$ _____

5. $\sqrt{75} =$ _____

6. $\sqrt{300} =$ _____

7. $\sqrt{48} =$ _____

8. $\sqrt{147} =$ _____

9. $\sqrt{128} =$ _____

Objective 3 – Add and/or subtract the like radicals.

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

10. _____

11. $\sqrt{7} - 2\sqrt{6} - 5\sqrt{7} + 2\sqrt{6}$

11. _____

12. $6 + 9\sqrt{2} - \sqrt{2} - 10$

12. _____

Objective 4 – Multiply.

13. $\sqrt{2} \cdot \sqrt{12}$

13. _____

14. $\sqrt{15} \cdot \sqrt{18}$

14. _____

15. $2\sqrt{6} \cdot \sqrt{24}$

15. _____

16. $-3\sqrt{5} \cdot 2\sqrt{10}$

16. _____

17. $(4\sqrt{3})^2$

17. _____

18. $(-\sqrt{5})^2$

18. _____

19. $\sqrt{3}(\sqrt{6} + 2)$

19. _____

20. $-\sqrt{5}(\sqrt{5} - \sqrt{15})$

20. _____

Objective 5 – Divide.

21. $\sqrt{\frac{64}{25}}$

21. _____

22. $\sqrt{\frac{1}{121}}$

22. _____

23. $\sqrt{\frac{400}{49}}$

23. _____

24. $\frac{\sqrt{3}}{\sqrt{12}}$

24. _____

25. $\frac{\sqrt{18}}{\sqrt{50}}$

25. _____

26. $\frac{\sqrt{45}}{\sqrt{5}}$

26. _____