

RADICAL Review #3

Name _____

Simplify:

1. $\sqrt{80} =$

2. $\sqrt{72} =$

3. $\sqrt{52}$

4. $-4\sqrt{20} =$

5. $8\sqrt{63} =$

6. $3\sqrt{7} - 4\sqrt{7} + 2\sqrt{7}$

7. $\sqrt{98} - \sqrt{8} + \sqrt{32}$

8. $\sqrt{63} - \sqrt{28} - \sqrt{7}$

9. $\sqrt{50} - \sqrt{72} + \sqrt{18}$

10. $8\sqrt{150} + 4\sqrt{96} - 3\sqrt{600}$

11. $2\sqrt{63} + 5\sqrt{54} - \sqrt{28} - 3\sqrt{24}$

Multiply and Simplify

12. $6\sqrt{5} \cdot 3\sqrt{20}$

13. $3\sqrt{2} \cdot \sqrt{2}$

14. $2\sqrt{7} \cdot 3\sqrt{6}$

15. $3\sqrt{6} \cdot 2\sqrt{8}$

16. $5\sqrt{6} \cdot 2\sqrt{6}$

17. $\sqrt{3} \cdot \sqrt{13}$

18. $(2\sqrt{3})^2$

19. $(\sqrt{10})^2$

Division: Rationalize the denominator

20. $\frac{\sqrt{27}}{\sqrt{3}}$

21. $\frac{6}{\sqrt{8}}$

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

23. $\frac{\sqrt{8}}{\sqrt{20}}$