

Teacher: _____

Algebra 1-B
WS 10.3 b Dividing Radicals

Name _____

Date _____ Period _____

Simplify each radical.

1. $(5 - 3\sqrt{33})(5 + 3\sqrt{33})$

2. $\frac{\sqrt{5}}{3 - \sqrt{8}}$

3. $(3\sqrt{11} - 2\sqrt{14})(3\sqrt{11} + 2\sqrt{14})$

4. $\frac{3}{4 + 4\sqrt{5}}$

5. $\frac{4}{\sqrt{5} + \sqrt{2}}$

6. $\frac{56}{\sqrt{3} + \sqrt{10}}$

7. $\frac{15}{\sqrt{11} - \sqrt{6}}$

8. $\frac{-20}{\sqrt{6} - \sqrt{2}}$

9. $\frac{10}{\sqrt{22} + 4}$

10. $\frac{36}{4 - \sqrt{7}}$

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

12. $\frac{2\sqrt{3} + 3\sqrt{5}}{3\sqrt{3} - 5\sqrt{5}}$

$$13. \frac{15}{2\sqrt{7}}$$

$$14. \sqrt{\frac{18}{49}}$$

$$15. \sqrt{\frac{10x^3}{128x}}$$

$$16. \frac{40}{\sqrt{5}}$$

$$17. \sqrt{\frac{1}{80}}$$

$$18. \frac{3\sqrt{10}}{\sqrt{15}}$$

$$19. \frac{6\sqrt{11n^2}}{\sqrt{3n}}$$

$$20. \frac{2}{\sqrt[3]{100y}}$$

$$21. \frac{\sqrt{5}}{\sqrt{3}}$$

$$22. \frac{4\sqrt{2}}{3\sqrt{7}}$$

$$23. \frac{\sqrt{2}-\sqrt{8}}{4\sqrt{9}}$$

$$24. \frac{3+\sqrt[3]{3}}{\sqrt[3]{9}}$$