

Name _____ Date _____ Period _____

9.4 – Simplifying Radicals with Variables

Simplify.

1. $\sqrt{27x^2}$

2. $\sqrt{150x^4}$

3. $\sqrt{32x^4}$

4. $\sqrt{392x^2}$

5. $\sqrt{96x}$

6. $\sqrt{144x^2}$

7. $\sqrt{512x^3}$

8. $\sqrt{216x^2}$

9. $\sqrt{196x^4}$

10. $\sqrt{384x^2}$

$$11. \sqrt{112x^2y^4}$$

$$12. \sqrt{128x^4y^4}$$

$$13. \sqrt{112x^2y^3}$$

$$14. \sqrt{64x^4y}$$

$$15. \sqrt{80x^3y^2}$$

$$16. \sqrt{12xy}$$

$$17. \sqrt{48x^3y^4}$$

$$18. \sqrt{192xy^3}$$

$$19. \sqrt{175x^4y^4}$$

$$20. \sqrt{75xy^3}$$