

Name _____

Date _____

Practice Set 9.4
Rationalizing the Denominator

Rationalize each denominator and simplify if possible.

1. $\frac{\sqrt{1}}{\sqrt{5}}$

1. _____

2. $\frac{6}{\sqrt{3}}$

2. _____

3. $\sqrt{\frac{3}{11}}$

3. _____

4. $\frac{\sqrt{a}}{\sqrt{b}}$

4. _____

5. $\sqrt{\frac{5}{8}}$

5. _____

6. $\frac{5}{\sqrt{12}}$

6. _____

7. $\sqrt{\frac{9}{x}}$

7. _____

8. $\frac{2}{\sqrt{24}}$

8. _____

9. $\sqrt{\frac{10}{3}}$

9. _____

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10. $\sqrt{\frac{4x^2}{10}}$

10. _____

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

11. _____

12. $\frac{4}{3-\sqrt{3}}$

12. _____

13. $\frac{6}{\sqrt{3}-\sqrt{2}}$

13. _____

14. $\frac{7}{\sqrt{5}-2}$

14. _____

15. $\frac{\sqrt{6}-\sqrt{3}}{\sqrt{6}+\sqrt{3}}$

15. _____

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

16. _____

17. $\frac{\sqrt{x}}{\sqrt{x}-3}$

17. _____

18. $\frac{\sqrt{x}+4}{\sqrt{x}-3}$

18. _____