Trig/Precal Appendix

Rationalization Worksheet

1. $\sqrt{\frac{7}{2}}$

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

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

4. $\sqrt[3]{\frac{25}{9}}$

5. $\sqrt[3]{\frac{11}{3}}$

6. $\frac{5}{\sqrt{10}}$

7. $\frac{-4\sqrt{3}}{5\sqrt{2}}$

8. $\sqrt[4]{\frac{32}{27}}$

9. $\frac{3s}{\sqrt{2t}}$

10. $\frac{\sqrt[4]{x^3y^2}}{3\sqrt[4]{xy}}$

11. $\sqrt{\frac{2x}{3y}}$

12. $\frac{21}{\sqrt[3]{-98x}}$

13. $\sqrt{\frac{8x^6y^3}{15z^7}}$

14. $\frac{270w^2uv^3}{\sqrt[4]{288w^7u^6}}$

15. $\frac{25x^2yz^2}{\sqrt[3]{100x^4y^5z^2}}$

16. $\frac{3}{4-\sqrt{7}}$

17. $\frac{6}{\sqrt{11}+\sqrt{5}}$

18. $\frac{2}{\sqrt{5}+\sqrt{3}}$

19. $\frac{14}{\sqrt{11}-2}$

20. $\frac{1}{2\sqrt{x}+\sqrt{y}}$

21. $\frac{x-9}{\sqrt{x}-3}$

22. $\frac{\sqrt{u}+\sqrt{x}}{\sqrt{u}-\sqrt{x}}$

23. $\frac{x-4}{\sqrt{x}+2}$

24. $\frac{5}{4-\sqrt{3}}$

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

26. $\frac{3}{\sqrt{5m}-\sqrt{p}}$

27. $\frac{1-\sqrt{2}}{\sqrt{7}+\sqrt{6}}$

28. $\frac{4\sqrt{x}}{\sqrt{x}-2\sqrt{y}}$

29. $\frac{-4}{\sqrt{3}-\sqrt{7}}$

30. $\frac{5\sqrt{m}}{3\sqrt{m}-\sqrt{m}}$