

Section 1.3 – Roots

Problem Set 1

Simplify the following expressions.

1. $\sqrt{49}$

2. $\sqrt{162}$

3. $\sqrt{72}$

4. $\sqrt{200}$

5. $\sqrt{28}$

6. $\sqrt{150}$

7. $\sqrt{363}$

8. $\sqrt{188}$

80. $\sqrt[3]{27}$

10. $\sqrt[3]{625}$

11. $\sqrt[3]{243}$

12. $\sqrt[3]{64}$

13. $\frac{-3}{8\sqrt{3}}$

14. $\frac{2}{\sqrt{12}}$

15. $\frac{-7}{\sqrt{50}}$

16. $\frac{-8}{\sqrt{48}}$

17. $\frac{\sqrt{2}}{1+\sqrt{2}}$

18. $\frac{4}{2+\sqrt{3}}$

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

20. $\frac{\sqrt{21}}{1-\sqrt{7}}$