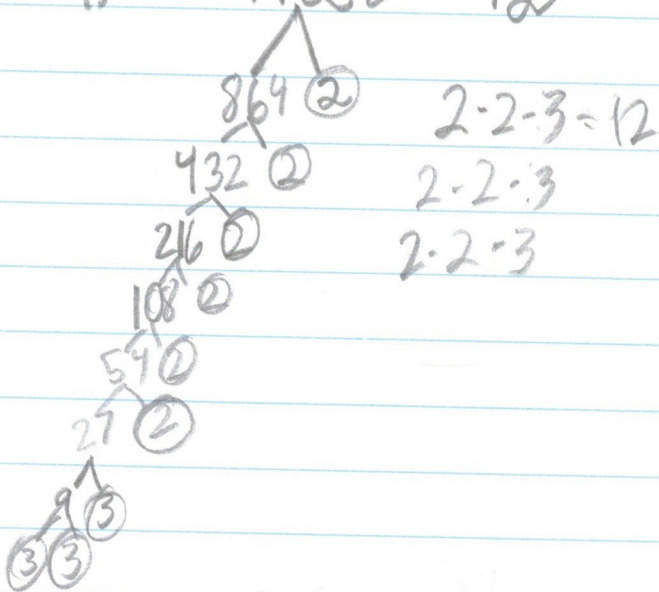


7.2 Cube Roots

pg. 298-299 #3, 7-17 odds, 20-25, 31

3. 50^3 7. -5

9. $1728 = 12^3$



11. $\frac{343}{64} = \left(\frac{7}{4}\right)^3$ $\sqrt[3]{\left(\frac{7}{4}\right)^3} = \frac{7}{4}$

13. $3\frac{3}{4} - \frac{1}{8} = 3\frac{6}{8} - \frac{1}{8} = 3\frac{5}{8}$

15. $\frac{1}{4} - 2\left(-\frac{1}{6}\right) = \frac{1}{4} + \frac{1}{3} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12}$

17. $4(20) - 6 = 80 - 6 = 74$

20. $150 - \sqrt[3]{-3,375} = 150 - 15 = 135$

21. 30

22. 40 & 1,600

7.2 Cube Roots

$$23. -\frac{1}{4} > \sqrt[3]{-\frac{8}{125}}$$

$$24. \sqrt[3]{0.001} > 0.01$$

$$25. \sqrt[3]{64} < \sqrt{64}$$

$$31. \sqrt[3]{(3x+4)^3} = \sqrt[3]{2197}$$

$$3x+4 = 13$$

$$3x = 9$$

$$x = 3$$