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38.
$$\left(a^{-\frac{2}{3}}\right)^{-\frac{1}{8}}_{3} = \alpha^{\frac{2}{18}} = \alpha^{\frac{1}{9}}$$

$$r = \left(\frac{3V}{4\pi}\right)^{\frac{1}{3}}.$$

$$r = \sqrt{4\pi}$$

$$7 = \sqrt{4\pi}$$

$$3x \left(3x413/4\pi\right)$$

$$x = 4.62 \text{ in}$$

22.
$$\sqrt[3]{62} = 62^{\frac{1}{3}}$$

24.
$$\sqrt[3]{5x^2y} = \sqrt[3]{5} \sqrt[3]{x^2} \sqrt[3]{y}$$

= $5^{\frac{1}{3}} \times \sqrt[\frac{2}{3}]{y}$

$$(19) \quad \sqrt[5]{c^2} = \left(\sqrt[5]{c}\right)^2$$

$$30 \quad 8^{\frac{7}{2}} \cdot 8^{\frac{5}{3}} = 8^{\frac{8}{3}} = 8^{4} =$$



a.
$$\sqrt{x+1} + 2 = 4$$

$$(\sqrt{x+1})^{\frac{2}{3}} (2)$$

$$x+1 = 4$$

$$x+1 = 4$$

$$x+1 = 4$$

$$x+3 = 4$$

$$y=4$$

$$y=4$$

2B.
$$(2y+6)^{\frac{1}{4}}-2=0$$

$$\sqrt[4]{2y+6} - 2 = 0 - \sqrt[4]{2/5} + 6 - 2 = 0$$

$$(\sqrt[4]{2y+6})^{4} = (2)^{4} \sqrt[4]{2/5} + 6 - 2 = 0$$

$$2y+6 = 16$$

$$2y = 10$$

$$y = 5$$

b.
$$\sqrt{x-15} = 3-\sqrt{x}$$

$$(3-\sqrt{x})(3-\sqrt{x})$$