23. $\sqrt[3]{16y^3}$

$\sqrt[3]{8}\,\sqrt[3]{2}\,\sqrt[3]{y^3}$

$2y\sqrt[3]{2}$

52. What is $\sqrt{39}$ divided by $\sqrt{26}$?

$\frac{\sqrt{39}}{\sqrt{26}} = \sqrt{\frac{39}{26}} \overset{\div 13}{\underset{\div 3}{=}} \sqrt{\frac{3}{2}}$ -

$\frac{\sqrt{3}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{6}}{\sqrt{4}} = \frac{\sqrt{6}}{2}$

$\frac{\sqrt{39}}{\sqrt{26}} \cdot \frac{\sqrt{26}}{\sqrt{26}} =$

$$v_0 = \sqrt{v^2 - 64h}\ .$$

$V_0 = \sqrt{120^2 - 64(225)}$

$V_0 = 0$ ft/sec

81.81 mph

$$\frac{120\ \cancel{ft}}{1\ \cancel{sec}} \Big| \frac{1\ mi}{5280\ \cancel{ft}} \Big| \frac{3600\ \cancel{sec}}{1\ hr}$$

$$\sqrt{180a^2b^8}$$

$\sqrt{180}$ $\sqrt{a^2}$ $\sqrt{b^8}$

$\sqrt{9}\sqrt{20}$ $|a|b^4$

$3\sqrt{4}\sqrt{5}$

$3 \cdot 2$

$6\sqrt{5}$

41. $5\sqrt{20} + \sqrt{24} - \sqrt{180} + 7\sqrt{54}$

$5\sqrt{4}\sqrt{5}$ $\quad \sqrt{4}\sqrt{6}$ $\quad \sqrt{36}\sqrt{5}$ $\quad 7\sqrt{9}\sqrt{6}$

$5 \cdot 2$ $\quad 7 \cdot 3$

$10\sqrt{5} + 2\sqrt{6} - 6\sqrt{5} + 21\sqrt{6}$

$4\sqrt{5} + 23\sqrt{6}$

34. $(3\sqrt{12})(2\sqrt{21})$

$6\sqrt{252}$

$6\sqrt{36}\sqrt{7}$

$6 \cdot 6$

$36\sqrt{7}$