

Angeles City Science High School

Mathematics 9

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Section: 9 - Adenine

What's More

1. $\sqrt{100x^3}$
 $= 10x^2 \sqrt{x}$ $2 \overline{) 3}$
 $\underline{-2}$
 1

2. $\sqrt{45x^2}$
 $= 3x \sqrt{5}$ $45 \quad 32$
 $\wedge \quad \wedge$
 $9 \quad 8 \quad 2$
 $(3 \quad 3) \quad (2 \quad 2)$
 $28 \quad 22$
 \wedge
 $1 \quad 7 \quad 4$
 $2 \overline{) 3}$
 $\underline{-2}$
 1 $(2 \quad 2)$

3. $\sqrt{28x^3y^3}$
 $= 2xy \sqrt{7xy}$ $4 \overline{) 5}$ $4 \overline{) 7}$
 $\underline{-4}$ $\underline{-4}$
 1 3

4. $\sqrt{75x^2y}$
 $= 5x \sqrt{3y}$ $75 \quad 2 \overline{) 2}$
 $\wedge \quad \underline{-2}$
 $15 \quad 0$
 \wedge
 $3 \quad 5$

5. $-6x \sqrt{150x^3}$
 $= -6x(5x \sqrt{3 \cdot 2x})$
 $= -30x^2 \sqrt{6x}$ $150 \quad 2 \overline{) 3}$
 $\wedge \quad \underline{-2}$
 $30 \quad 1$
 \wedge
 $2 \quad 15$
 \wedge
 $3 \quad 5$

$$7. \sqrt{\frac{3x}{2}} = \sqrt{\frac{\sqrt{6x}}{2}}$$

$$8. \sqrt[3]{\frac{9x^6}{y^3z^{12}}}$$

$$= \frac{x^2 \sqrt[3]{9}}{yz^4}$$

$$9. \frac{2xy}{\sqrt[3]{4x}}$$

$$= \frac{\cancel{2} \cancel{y} \sqrt[3]{\cancel{4}x}}{\sqrt[3]{\cancel{4}x}} (y)$$

$$= \cancel{2} \cancel{y} \sqrt[3]{2x^2}$$

$$\begin{array}{r} 8 \\ 4 \overline{) 2} \\ 2 \end{array}$$

$$= 2xy (\sqrt[3]{4x})$$

$$= 4 \sqrt[3]{8x^2}$$

$$= \boxed{4 \sqrt[3]{2x^2}}$$

$$10. \frac{\sqrt{7x}}{\sqrt{2x+5}}$$

$$= \boxed{\frac{x \sqrt{14-5} \sqrt{7x}}{2x-25}}$$

