

$$\#13 \quad \sqrt{4} \cdot \sqrt{25}$$

$$2 \cdot 5 = \boxed{10}$$

$$\#16 \quad \sqrt[3]{-3} \sqrt[3]{9}$$

$$\sqrt[3]{-27}$$

$$\boxed{-3}$$

$$\#19 \quad \sqrt{36x^3}$$

$$\begin{array}{c} \swarrow \quad \searrow \\ 6 \cdot 6 \quad x^2 \cdot x \end{array}$$
~~$$6x^2 \sqrt{x}$$~~

$$\boxed{6x\sqrt{x}}$$

$$\#22 \quad \sqrt[3]{-16a^{12}}$$

$$\begin{array}{c} \swarrow \quad \searrow \\ 8 \quad 2 \end{array}$$

$$-2 \sqrt[3]{2a^{12}}$$

$$\begin{array}{c} \swarrow \quad \searrow \\ (a^4)^3 \end{array}$$

$$(-2a^4) \sqrt[3]{2}$$

$$\#25 \quad \sqrt[3]{216x^4y^3}$$

$$\begin{array}{c} \swarrow \quad \searrow \\ 6^3 \quad x^3 \cdot x \end{array}$$

$$\boxed{6xy\sqrt{x}}$$

$$\#28 \quad \frac{\sqrt{6x}}{\sqrt{3x}} \cdot \frac{\sqrt{3x}}{\sqrt{3x}} = \frac{\sqrt{18x^2}}{3x} = \frac{\cancel{3x}\sqrt{2}}{\cancel{3x}}$$

$$= \boxed{\sqrt{2}} \quad \text{or} \quad \frac{\sqrt{6x}}{\sqrt{3x}} = \sqrt{\frac{\cancel{6x}}{\cancel{3x}}} = \sqrt{2}$$

$$\#31 \quad \frac{\sqrt{(2x)^2}}{\sqrt{(5y)^4}} = \frac{2x}{(5y)^2} = \frac{2x}{25y^2}$$