Simplify each. Use absolute value symbols when needed.

1.
$$\sqrt[5]{m^{20}q^{35}}$$

2.
$$\sqrt[4]{a^{12}b^{32}}$$

3.
$$\sqrt[8]{x^{40}y^{21}z^{15}}$$
 | $\sqrt[5]{y^{5}}$

4.
$$\sqrt[4]{k^{41}j^{29}}$$
 $\times^{5}\sqrt[5]{3}$

? =
$$b^8 c^5 d^{11} \sqrt[3]{c^2 d}$$

What was the original problem that produced the answer shown above?

Simplify. Use absolute value symbols when needed.

$$\sqrt{25c^{14}d^{29}} = 5 |c^7| d^{14} \sqrt{d}$$

Simplify. Assume all variables are positive.

Simplify each.

1.
$$8^{\frac{7}{3}}$$



$$\frac{1}{32^{3/5}}$$
 $\frac{1}{3\sqrt{32^3}}$ or $(\frac{1}{5\sqrt{32}})^2$