

1) Express each of a radical then evaluate
 $(3125)^{\frac{2}{5}}$

2) Express each as a power But don't evaluate
a) $\sqrt[7]{624}^3$

3) Entire to Mix
a) $\sqrt{243}$

b) $\sqrt[3]{432}$

4) Mixed to Entire
 $4\sqrt[5]{2}$

Which are a rational #

$$\sqrt{50}, \sqrt{\frac{9}{64}}, \sqrt[3]{-21}, \sqrt{6.4}$$

Evaluate $\left(\frac{81}{25}\right)^{3/2}$

Evaluate $27^{-4/3}$

Evaluate $\left(\frac{32}{243}\right)^{1/5}$

Simplify using laws of exponents

$$1) \left(\frac{3}{4} a^7 b^4 \right)^2$$

=

$$2) \left(\frac{5a^5}{x^7} \right)^{-4}$$

$$3) \left(\frac{x^6 y^11 z^2}{x^8 y^9 z^2} \right)^5$$

$$4) \frac{(4x^4y^3)(3x^2y)^2}{2x^{-4}y^7}$$