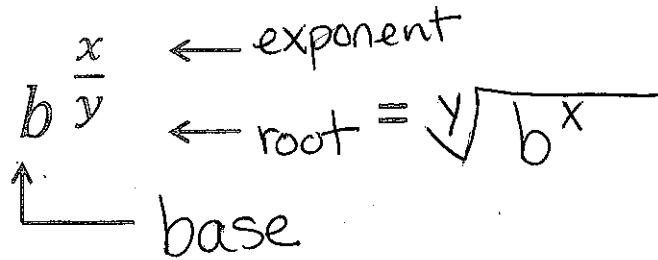


Algebra 1 Writing in Radical Form and Exponential form

To Write an expression in radical form

$$\sqrt{9} = 3$$



a) $y^{\frac{5}{2}} r^e$

b) $(3a)^{\frac{4}{5}} r^e$

c) $(5a)^{\frac{5}{3}}$

d) $p^{\frac{1}{2}} r^e$

e) $(3y^2)^{\frac{1}{3}}$

f) $(12x^2y)^{\frac{1}{2}} r^e$

To Write an expression in exponential form

a) $\sqrt[3]{3m}$

b) $\sqrt[3]{10x^2y^3}$

c) $\sqrt{10p}$

d) $\sqrt{5x^4}$

e) $\sqrt{m^5}$

Writing in exponential form and then Simplify

a) $\sqrt[3]{b^{12}} = b^{\frac{12}{3}} = b^4$

c) $\sqrt{m^6 p^8}$

d) $\sqrt{m^4 p^{20}}$

e) $\sqrt[4]{x^{24} y^4}$

Assignment

Write the expression in radical form

$$1) y^{\frac{3}{2}} \quad \text{r} \quad \sqrt{y^3}$$

$$2) (4a)^{\frac{5}{4}}$$

$$3) (5a^7)^{\frac{2}{5}}$$

$$4) m^{\frac{1}{3}}$$

$$5) (5y^4)^{\frac{1}{2}}$$

$$6) (3x^7y^3)^{\frac{1}{2}}$$

Write the expression in exponential form

$$7) \sqrt[3]{2p} \quad \frac{1}{3} \quad (2p)^{\frac{1}{3}}$$

$$8) \sqrt[3]{9x^8y^7}$$

$$9) \sqrt{7x}$$

$$10) \sqrt{8x^9}$$

$$11) \sqrt{m^7}$$

Write in exponential form and then simplify

$$12) \sqrt[3]{b^{18}} \quad b^{\frac{18}{3}} = b^6$$

$$13) \sqrt[4]{a^4b^{12}}$$

$$14) \sqrt{m^4p^8}$$

$$15) \sqrt{x^6y^{10}}$$