$$36^{0.5}$$

$$= 36^{3}$$

$$= (36^{3})$$

$$= (36^{3})$$

$$= (36^{3})$$

$$= (36^{3})$$

$$32^{0.2}$$
= $33^{1/3}$
= $\sqrt[3]{33}$
= $\sqrt[3]{33}$

$$81^{3/4}$$
= $(\sqrt[4]{81})^3$
= $(3)^3$
= $(3)^3$

$$25^{-3/3}$$

$$= (35)^{3/3}$$

$$= (1)^{3/3}$$

$$= (1)^{3/3}$$

$$= (1)^{3/3}$$

$$= (5)^{3/3}$$

$$= (1)^{3/3}$$

$$= (5)^{3/3}$$

$$\frac{36}{49}^{-0.5} \qquad \frac{27}{64}^{-2} \\
= \frac{49}{36}^{0.5} \qquad = \frac{64}{37}^{-3} \\
= \frac{49}{36}^{-3} \qquad = \frac{64}{37}^{-3} \\
= \frac{49}{36}^{-3} \qquad = \frac{49}{36}^{-3} \\
= \frac{16}{9}^{-3} \qquad = \frac{49}{36}^{-3} \\
= \frac{16}{9}^{-3} \qquad = \frac{49}{36}^{-3} \\
= \frac{16}{9}^{-3} \qquad = \frac{49}{36}^{-3} \qquad = \frac{49}{36}^{-3} \\
= \frac{16}{9}^{-3} \qquad = \frac{49}{36}^{-3} \qquad = \frac{49}{36}^{-3} \\
= \frac{16}{9}^{-3} \qquad = \frac{49}{36}^{-3} \qquad = \frac{49}{36}^{-3}$$

Write as a radical

a)
$$25^{3/2}$$

b)
$$27^{1/3}$$
 ($\sqrt[3]{27}$)

Write as a power

$$= x^{9/3}$$

$$= 5^{4/3}$$

Exponent Laws

Product of powers: $a^m \cdot a^n = a^{m+n}$

Quotient of powers: $a^m \div a^n = a^{m-n}, a \neq 0$

Power of a power: $(a^m)^n = a^{mn}$

Power of a product: $(ab)^m = a^m b^m$

Power of a quotient: $\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}, b \neq 0$

$$\frac{10c^{8}d^{-2}}{2c^{4}d^{5}}$$

$$= 5c^{8-4}J^{-3-5}$$

$$= 5c^{4}J^{-7}$$

$$= \frac{5c^{4}}{d^{7}}$$

$$\frac{(4d^3c^{-3})(3d^6c^7)}{(2d^3c)^2}$$

$$= \frac{9_{1.9} \cdot 9_{3.9} \cdot 0.9}{9_{1.9} \cdot 341}$$

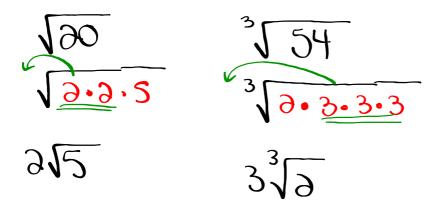
$$= \frac{9969}{1996} =$$

$$= \frac{749_{6}c_{9}}{99_{6}c_{4}}$$

$$=36^{9-6}c^{4-3}$$

$$= 39_3^{\circ}$$

Entire to Mixed:



Mixed to Entire

