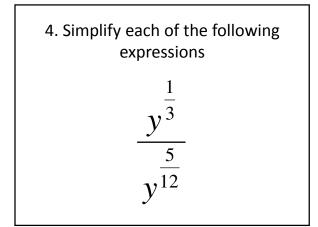
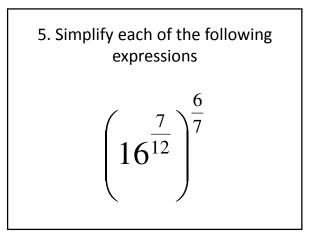
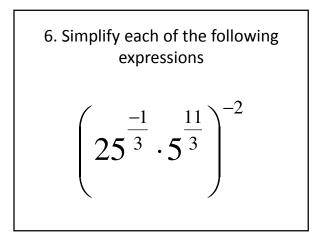


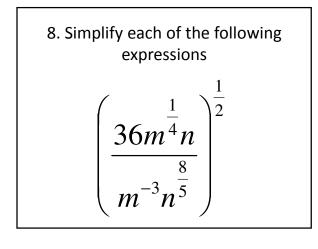
3. Simplify each of the following expressions
$$5^{\frac{-7}{3}} \cdot 5^{\frac{2}{5}}$$

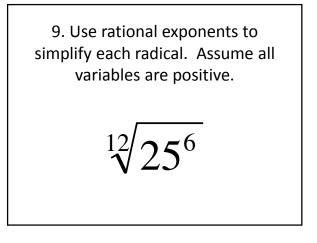






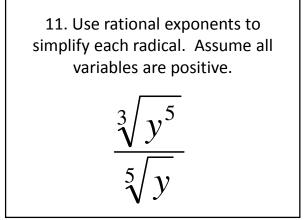
7. Simplify each of the following expressions
$$\left(a^{\frac{5}{2}} \cdot b^{-\frac{1}{3}}\right) \left(a^{-3} \cdot b^{\frac{10}{3}}\right)$$

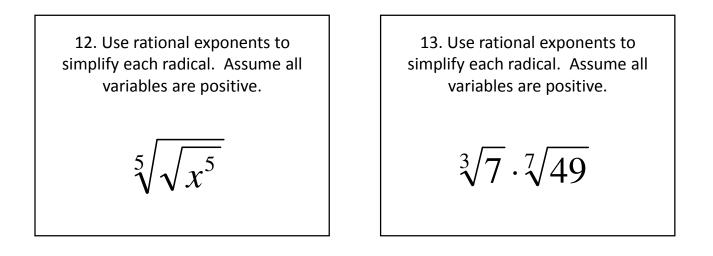




10. Use rational exponents to simplify each radical. Assume all variables are positive.

$$\sqrt{36x^{10}y^{18}}$$





14. Simplify $5x^{\frac{3}{2}} + 2x^{\frac{1}{2}}(3x-5)$ by factoring out $x^{\frac{1}{2}}$ 15. Simplify $2(x+3)^{\frac{1}{3}}(5x+2)+9(x+3)^{\frac{4}{3}}$ by factoring out $(x+3)^{\frac{1}{3}}$