## Coreq Support for Section 5.4

Topic 1: Solving Exponential Equations by Relating the Bases
Recall from section 5.1 that some exponential equations can be solved by using the Method of Relating the Bases. If $b$ is a positive number other than 1 and $b^{u}=b^{v}$, then $u=v$.

Topic 2: Understanding the Definition of a Logarithmic Function
Definition: For $x>0, b>0$ and $b \neq 1$, the logarithmic function with base $\boldsymbol{b}$ is defined by $y=\log _{b} x$ if and only if $x=b^{y}$.

The definition of a logarithmic function can be used to rewrite a logarithmic equation as an equation involving an exponent or to rewrite an equation involving an exponent as a logarithmic equation.

Topic 4: Evaluating Expressions with Negative and Rational Exponents

