


## Exercise 14

**Radicals and Exponents** Write each radical expression using exponents, and each exponential expression using radicals.

	Radical expression	Exponential expression
14.		$2^{-1.5}$

### Solution

Write the exponential expression as a radical expression.

$$2^{-1.5} = 2^{-3/2} = \frac{1}{2^{3/2}} = \frac{1}{2^{3(\frac{1}{2})}} = \frac{1}{(2^3)^{1/2}} = \frac{1}{\sqrt{2^3}}$$