## Power Functions

For each graph, match the plots with the functions.


Figure 1: Plots of $x^{2}, x^{4}$, and $2^{x}$


Figure 2: Plots of $x^{2}, 4 x^{2}$, and $x^{4}$


Figure 3: Plots of $2^{-2 x}, 2 * 2^{-x}$, and $x^{-2}$


Figure 4: Plots of $x^{1 / 3}, x^{1 / 4}$, and $x^{3}, x^{5}$.

Back to working on the Field Guide of Mathematical Functions.

1. What are the basic morphs of power functions?
2. How can you distinguish power functions from exponential functions?
