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 $x^2$, $4x^2$, and $x^4$
Figure 3: Plots of $2^{-2x}$, $2 \cdot 2^{-x}$, 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?