Problem 1 *Compute the following numeric exponential value.*

- $7^5 = \boxed{16807}$
- $\left(\frac{1}{7}\right)^5 = \boxed{\frac{1}{16807}}$
- $(7)^{-5} = \boxed{\frac{1}{16807}}$
- $\left(\frac{1}{7}\right)^{-5} = \boxed{16807}$

Feedback(*`attempt`*): *Remember that you can distribute a power over the top and bottom of a fraction, and that negative powers "flip" a fraction. So for example,* $\left(\frac{1}{2}\right)^{-5} = \left(\frac{2}{1}\right)^{5} = \frac{2^5}{1^5} = \frac{32}{1} = 32$.

Problem 2 *Compute the following numeric exponential value.*

- $2^2 = \boxed{4}$
- $\left(\frac{1}{2}\right)^2 = \boxed{\frac{1}{4}}$
- $(2)^{-2} = \boxed{\frac{1}{4}}$
- $\left(\frac{1}{2}\right)^{-2} = \boxed{4}$

Feedback(*`attempt`*): *Remember that you can distribute a power over the top and bottom of a fraction, and that negative powers "flip" a fraction. So for example,* $\left(\frac{1}{2}\right)^{-5} = \left(\frac{2}{1}\right)^{5} = \frac{2^5}{1^5} = \frac{32}{1} = 32$.

Problem 3 *Compute the following numeric exponential value.*

- $3^0 = \boxed{1}$
- $\left(\frac{1}{3}\right)^0 = \boxed{1}$

- $(3)^{-0} = \boxed{1}$
- $\left(\frac{1}{3}\right)^{-0} = \boxed{1}$

Feedback(*`attempt`*): *Remember that you can distribute a power over the top and bottom of a fraction, and that negative powers "flip" a fraction. So for example,* $\left(\frac{1}{2}\right)^{-5} = \left(\frac{2}{1}\right)^{5} = \frac{2^5}{1^5} = \frac{32}{1} = 32$.

Problem 4 *Compute the following numeric exponential value.*

- $4^4 = \boxed{256}$
- $\left(\frac{1}{4}\right)^{4} = \boxed{\frac{1}{256}}$
- $(4)^{-4} = \boxed{\frac{1}{256}}$
- $\left(\frac{1}{4}\right)^{-4} = \boxed{256}$

Feedback(*`attempt`*): *Remember that you can distribute a power over the top and bottom of a fraction, and that negative powers "flip" a fraction. So for example,* $\left(\frac{1}{2}\right)^{-5} = \left(\frac{2}{1}\right)^{5} = \frac{2^5}{1^5} = \frac{32}{1} = 32$.
