

First Name _____ Last Name _____ Date ____ - ____ - ____ Period ____ Score ____

Problems. Consider the function $f(x) = \frac{x^3 + 5^3}{x + 5}$.

1. Use long division to reduce the fraction in $f(x)$.

2. Find $\lim_{x \rightarrow -5} \frac{x^3 + 5^3}{x + 5}$.