

Name: _____

We want to approximate a solution to $2x^5 - 7x^3 - 10 = 0$. Fill in **two rows** of the table below using $x_0 = 2$. Round your values to four decimal places.

$$f(x) = 2x^5 - 7x^3 - 10$$

$$f'(x) = 10x^4 - 21x^2$$

x_n	$f(x_n)$	$f'(x_n)$	$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$
2	-2	76	2.0263
2.0263	0.0818	82.3597	2.0253