QUIZ 9

Name _____

1. Find the nth (or general) term of the sequence $1, 3, 7, 15, 31 \ldots$

2. Write the first 5 terms of the sequence recursively defined as $s_n = 2s_{n-1} + 3$ for $n > 1$ and $s_1 = 1$.

3. Does the sequence defined by $a_n = 1 + \dfrac{n^3}{2^n}$ converge to a number? If so what is that number?