BECA / Dr. Huson / IB Math SL 1 April 2019 7.8 Do Now: Geometric sequence & series	Name:
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Geometric sequence and series	
1. Given a geometric sequence with $u_1 = 3$ and r	=2.25
(a) Find u_5 . ("Find" means you must show the approp	riate values substituted into a formula)
(b) Find S_5 , the sum of the first five terms of	the sequence.
(c) $S_k = 7980$. Find k algebraically.	

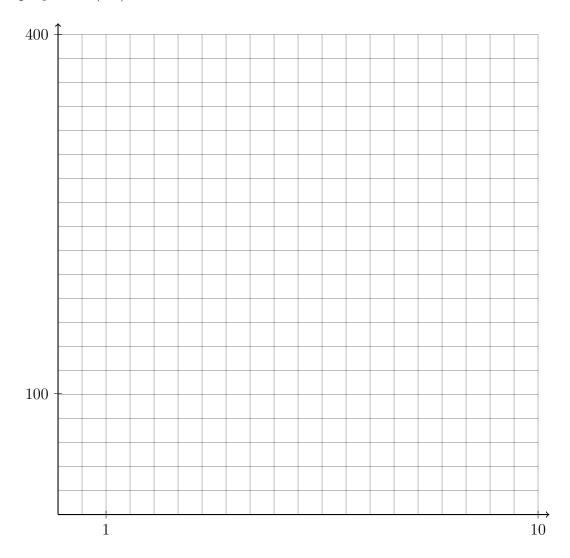
(d) Create a table in your calculator to check your answer. (show it to me)

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Early finishers

2. Graph $y = 400(.85)^{2x} - 6$ on the set of axes below.



3. The expression (x+a)(x+b) can not be written as

(a)
$$a(x+b) + x(x+b)$$

(b)
$$x^2 + (a+b)x + ab$$

(c)
$$x^2 + abx + ab$$

(d)
$$x(x+a) + b(x+a)$$