

Find an equation

with $\frac{1}{2} < x < 1$

1. Find some numbers and give formulae describing them?

1. $2^2, 3^2, 4^2, 5^2, 6^2, 7^2, 8^2, 9^2$

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2. Find some numbers and make this into a formula and describe how to use it to generate a sequence

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3. Answer the following

a. What does the word "sequence" mean?

b. An important part of describing a sequence is to give a formula for the n th term. Use the data

to find a formula for the n th term of the sequence $2, 4, 6, 8, 10, 12, 14, 16, 18, 20, \dots$

c. Write down the first five terms of the sequence $1, 4, 9, 16, 25, \dots$

d. Write down the first five terms of the sequence $1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, \dots$

e. Find the next two numbers in the sequence $1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, \dots$

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