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Mathematics 2602

Quiz 0 (Extra Credit)

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1. Consider the sets $A = \{1, 2, 5, 7\}$ and $B = \{3, 5, 7\}$.

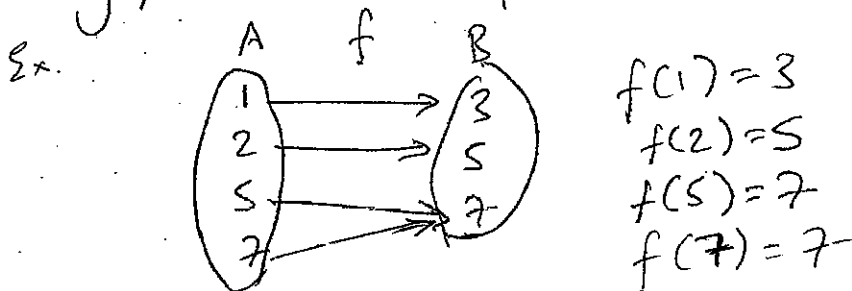
What is $A - B$? $A \cup B$?

$$A - B = \{1, 2\}$$

$$A \cup B = \{1, 2, 3, 5, 7\}$$

Is there an onto function $f: A \rightarrow B$? If so, describe one.

Yes. Any function that maps to all elements in B will do.



2. If $a_n = 5^n + (-5)^n$, what is a^{11} ? Your answer should be a single number.

$$a_{11} = 5^{11} + (-5)^{11} = 5^{11} - 5^{11} = 0$$