

35)	Any open set 18 the complement of a closed set
	A collection B of borel sets is the smallest o-algebra
	that contains all open sets.
	Let 5 be any o-algebra containing all closed sets
	BCS by definition of Borel set & B is the smallest
	Borel set is the smallest o-algebra that
	contains the closed sets XI
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Let R be the set of all real numbers.

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Let R be a base set. Because finite uplon of countable appropriations are countable in countable union of countable appropriations are countable

Let A, b], a, b G R and a < b

[a,b]: n = [a-n,b+n]

For each nGN, [a-n,b+n] is an open set

[a,b] is a countable intersection of open intervals

This is a borel set