

## Intersection (of sets) Samples

1. A intersection B is written

$$A \cap B$$

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2. C intersection D equals the empty set is written

$$C \cap D = \emptyset$$

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3. A intersection B equals the set with the elements two and four is written

$$A \cap B = 2, 4$$

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4. C intersection D equals the set of all x such that x is an element of C and x is an element of D is written

$$C \cap D = \{x : x \in C \text{ and } x \in D\}$$

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