

- 5** Jasmine throws two ordinary fair 6-sided dice at the same time and notes the numbers on the uppermost faces. The events A and B are defined as follows.

A: The sum of the two numbers is less than 6.

B: The difference between the two numbers is at most 2.

- (a) Determine whether or not the events A and B are independent. [4]

[illegible]

- (b)** Find $P(B \mid A')$. [3]

[illegible]