## Please write Your name:

**Show all work.** You should either write at a sentence explaining your reasoning, or annotate your math work with brief explanations. There is no need to simplify, and no calculators are needed.

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(1) Four balls are randomly withdrawn without replacement from a bowl containing 5 white and 3 black balls. What is the probability that two balls are white and the other two are black?

(2) Four balls are randomly withdrawn with replacement from a bowl containing 5 white and 3 black balls. What is the probability that two balls are white and the other two are black?