

HW1\_3a

1.3.1

$$S = \{HHH, HHT, HTT, HTH, THH, THT, TTH, TTT\}$$

1.3.2

*3 outcomes in the sample space have 2 heads:  $\{HHT, THH, HTH\}$*

1.3.3

$$A = \{HHT, THH, HTH\}$$

$$B = \{HTT, THT, TTH\}$$

$$\underline{A \cup B = \{HHT, HTT, HTH, THH, THT, TTH\}}$$

$$A \cap B = \{\emptyset\}$$