1:

1. (a)

$$A = \{0, 6, 8\} \qquad B' = \{8, 9\}$$
$$c' = \{1, 8\} \qquad A' = \{1, 3, 9\}$$

   Now we have : $(A \cap B') \cup (C' \cap A') = \{1, 8\}$

2. (b) First lets find all subsets of A: $\{\}, \{0\}, \{6\}, \{8\}, \{0, 6\}, \{0, 8\}, \{6, 8\}, \{0, 6, 8\}$.

   subsets of C: $\{\}, \{0\}, \{3\}, \{6\}, \{9\}, \cdots, \{0, 3, 6, 9\}$

   A set made of subsets which are part of A and not part of C: $\{\{8\}, \{0, 8\}, \{6, 8\}, \{0, 6, 8\}\}$

2: P(at lest 4 left handed)=P(4 left handed) + P(5 left handed):

$$= \frac{\binom{5}{4}\binom{10}{5}}{\binom{15}{9}} + \frac{\binom{5}{5}\binom{10}{4}}{\binom{15}{9}} = 0.252 + 0.042 = 0.294$$